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JOHN M. CLARKE Director

Bulletin 88

ZOOLOGY 11

CHECK LIST

OF THE

MOLLUSCA OF NEW YORK

BY

ELIZABETH J. LETSON

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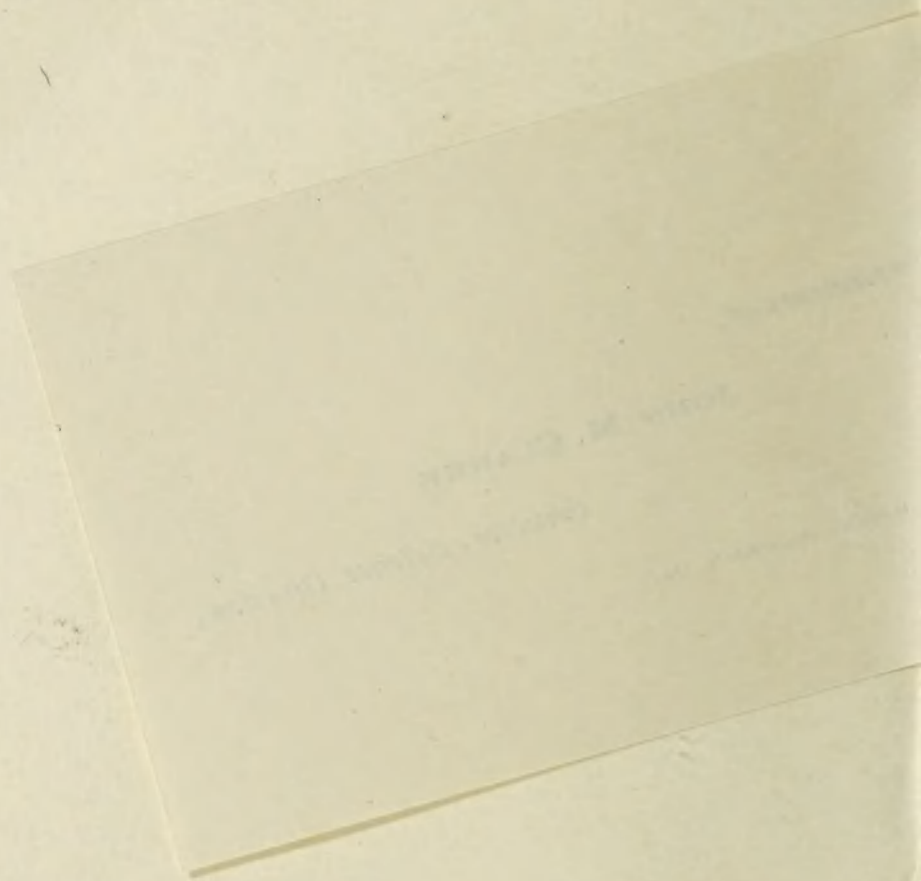
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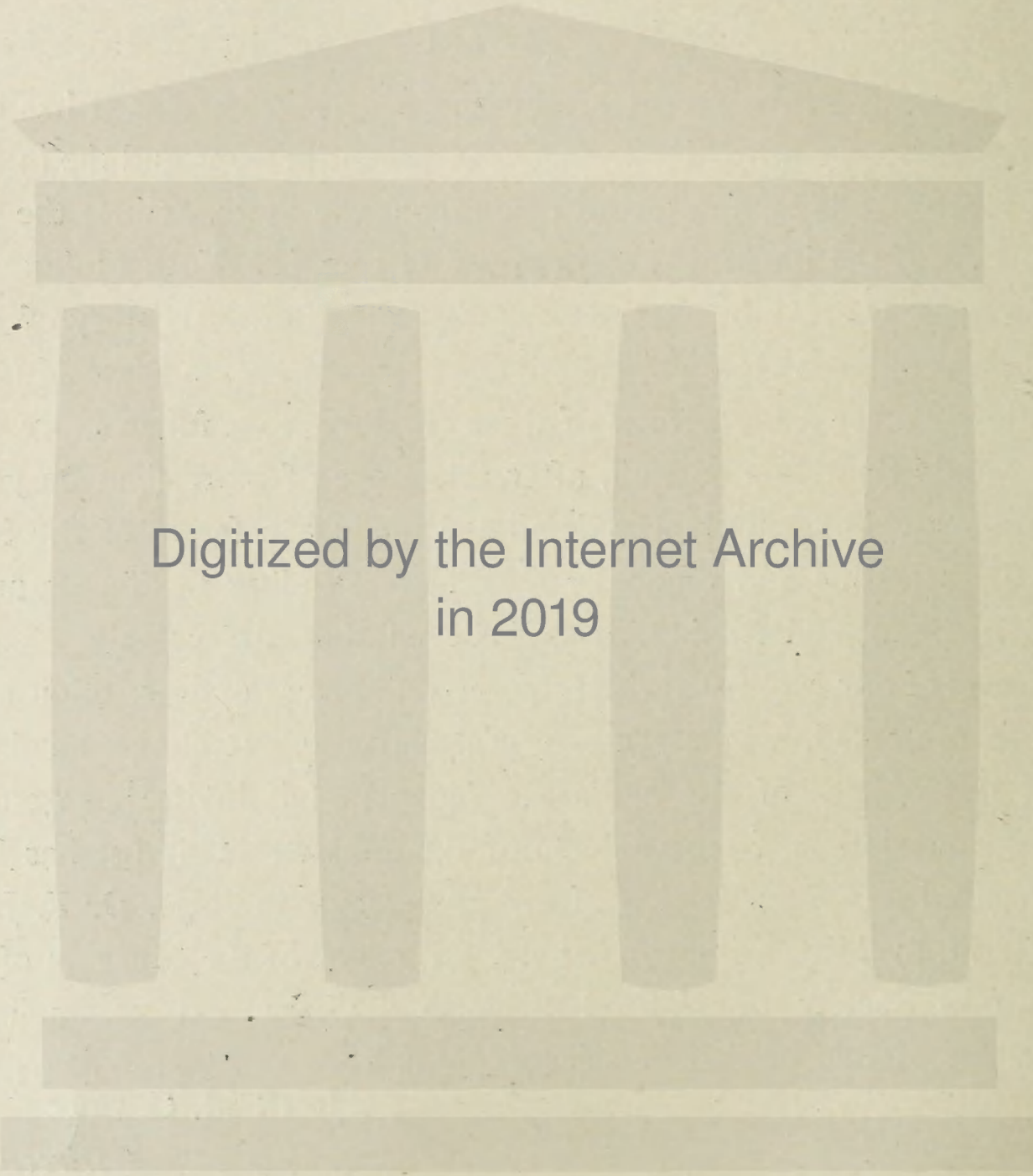


PREFACE

The study of the recent Mollusca, *La belle science* as it has been termed, is very attractive to many intelligent persons and the interest in recent shells is widespread throughout the State. Since the publication of the illustrated descriptions of the New York Mollusca by James E. De Kay in 1843, as a part of the Natural History of New York, only occasional efforts have been made by the State Museum to bring present knowledge of these creatures to a fuller expression. It would doubtless be well, after this lapse of more than 60 years, to portray in monographic detail the molluscan fauna of the State in its scientific and economic bearings. Pending the inauguration of such an undertaking, it is believed that the complete list of species of our Mollusca with references to places of description herewith presented, will serve a useful purpose. It comprehends all verified species of our molluscan fauna and it invites suggestions and emendations from students of the subject. This list has been prepared at the suggestion of my predecessor in office, Dr F. J. H. Merrill, by Miss Elizabeth J. Letson, director of the Museum of the Buffalo Society of Natural Sciences, a keen and accomplished student of this branch of science.

JOHN M. CLARKE

Director



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JOHN M. CLARKE Director

Bulletin 88

ZOOLOGY II

CHECK LIST

OF THE

MOLLUSCA OF NEW YORK

COMMUNICATED BY ELIZABETH J. LETSON

Class **CEPHALOPODA**

Order **DIBRANCHIATA**

Suborder **DECAPODA**

Family **LOLIGINIDAE**

Genus **LOLIGO** Lamarck

Loligo peali Lesueur

Loligo punctata DeK. DeKay, Nat. Hist. N. Y. 1843. p.3.
(Long Island)

Loligo pealii DeK. DeKay, Nat. Hist. N. Y. 1843. p.4

Loligo punctata DeK. Smith & Prime, An. Lyc. N. Y. IX.
1870. p.404. (Long Island sound)

Loligo pealii Les. Smith & Prime, An. Lyc. N. Y. IX. 1870.
p.405. (Long Island sound)

Loligo pallida Verrill

Loligo pallida Ver. Tryon, Man. Conch. 1879. 1:143. (Long
Island sound)

Family **OMMATOSTREPHIDAE**

Genus **OMMATOSTREPHE** D'Orbigny

Ommatostrephes sagittatus Lamarck

Loligo illecebrosus Les. Smith & Prime, An. Lyc. N. Y. IX.
1870. p.404. (Long Island sound)

Ommatostrephes sagittatus Lam. Tryon, Man. Conch.
1879. 1:177

Family **SPIRULIDAE**

Genus **SPIRULA** Lamarck

Spirula peroni Lamarck

Spirula peronii Lam. DeKay, Nat. Hist. N. Y. 1843. p.5

Spirula peronii Lam. Tryon, Man. Conch. 1879. 1:205

Class **GASTROPODA**Order **PECTINIBRANCHIATA**Family **MURICIDAE**Genus **UROSALPINX** Stimpson**Urosalpinx cinerea** Say

Fusus cinereus Say. DeKay, Nat. Hist. N. Y. 1843. p.145

Fusus imbricatus DeK. DeKay, Nat. Hist. N. Y. 1843. p.147

Fusus cinereus Say. Jay, Cat. 1852. p.321

Buccinum plicosum Mke. Smith & Prime, An. Lyc. N. Y. IX.
1870. p.397

Urosalpinx cinerea Say. Tryon, Man. Conch. 1880. 2:152

Genus **EUPLEURA** Adams**Eupleura caudata** Say

Eupleura caudata Say. Tryon, Man. Conch. 1880. 2:157

Genus **TROPHON** Adams**Trophon clathratus** Linnaeus

Fusus bamfius Mont. DeKay, Nat. Hist. N. Y. 1843. p.148

Trophon clathratus Linn. Tryon, Man. Conch. 1880. 2:140

Trophon scalariformis Gould

Fusus scalariformis Gld. DeKay, Nat. Hist. N. Y. 1843.
p.143

Subfamily **PURPURINAE**Genus **PURPURA** Bruguière**Purpura lapillus** Linnaeus

Purpura lapillus Linn. DeKay, Nat. Hist. N. Y. 1843.
p.135

Purpura imbricata Lam. DeKay, Nat. Hist. N. Y. 1843.
p.136

Purpura bizonalis Lam. DeKay, Nat. Hist. N. Y. 1843.
p.136

Purpura lapillus Linn. Smith & Prime, An. Lyc. N. Y. IX.
1870. p.397

Purpura lapillus Linn. Tryon, Man. Conch. 1880. 2:171

Family **BUCCINIDAE**Subfamily **NEPTUNIINAE**Genus **NEPTUNEA** Bolten**Neptunea despecta** Linnaeus

Fusus tornatus Gld. DeKay, Nat. Hist. N. Y. 1843. p.148

Neptunea despecta Linn. Tryon, Man. Conch. 1881. 3:116

Neptunea decemcostata Say

Fusus decemcostatus Say. DeKay, Nat. Hist. N. Y. 1843.
p.145

Neptunea decemcostata Say. Tryon, Man. Conch. 1881.
3:118

Genus **SIPHO** Klein**Sipho islandicus** Chemnitz

Fusus islandicus Chem. DeKay, Nat. Hist. N. Y. 1843. p.144

Sipho islandicus Chem. Tryon, Man. Conch. 1881. 3:123

Sipho stimpsoni Mörch

Sipho stimpsoni Mörch. Tryon, Man. Conch. 1881. 3:126

Sipho pygmaeus Gould

Sipho pygmaeus Gld. Tryon, Man. Conch. 1881. 3:129

Sipho ventricosus Gray

Fusus ventricosus Gray. DeKay, Nat. Hist. N. Y. 1843. p.144

Sipho ventricosus Gray. Tryon, Man. Conch. 1881. 3:128

Genus **FULGUR** Montfort**Fulgur canaliculatum** Linnaeus

Pyrula canaliculata Linn. DeKay, Nat. Hist. N. Y. 1843.
p.140

Pyrula canaliculata Linn. Jay, Cat. 1852. p.328

Sycotypus canaliculatus Linn. Gill, Am. Jour. Conch. 1867.
3:149

Pyrula canaliculata Linn. Smith & Prime, An. Lyc. N. Y.
IX. 1870. p.398

Fulgur canaliculatum Linn. Tryon, Man. Conch. 1881.
3:142

Fulgur carica Linnaeus

Pyrula carica Linn. DeKay, Nat. Hist. N. Y. 1843. p.141

Pyrula carica Linn. Jay, Cat. 1852. p.328

Pyrula aruana Linn. Jay, Cat. 1852. p.328

Fulgur carica Linn. Gill, Am. Jour. Conch. 1867. 3:145

Pyrula carica Linn. Smith & Prime, An. Lyc. N. Y. IX. 1870.
p.398

Fulgur carica Linn. Tryon, Man. Conch. 1881. 3:140

Subfamily **BUCCININAE**Genus **BUCCINUM** Linnaeus**Buccinum undatum** Linnaeus

Buccinum undatum Linn. DeKay, Nat. Hist. N. Y. 1843.
p.130

Buccinum undatum Linn. Smith & Prime, An. Lyc. N. Y. IX.
1870. p.397

Buccinum undatum Linn. Tryon, Man. Conch. 1881. 3:173

Family **NASSIDAE**

Genus **NASSA** Lamarck

Nassa trivittata Say

Buccinum trivittatum Say. DeKay, Nat. Hist. N. Y. 1843.
p.132

Buccinum trivittatum Say. Jay, Cat. 1852. p.363

Nassa trivittata Say. Jay, Cat. 1852. p.365

Nassa trivittata Say. Smith & Prime, An. Lyc. N. Y. IX.
1870. p.397

Nassa trivittata Say. Tryon, Man. Conch. 1882. 4:42

Nassa vibex Say

Buccinum vibex Say. DeKay, Nat. Hist. N. Y. 1843. p.133

Nassa vibex Say. Smith & Prime, An. Lyc. N. Y. IX. 1870.
p.397

Nassa vibex Say. Tryon, Man. Conch. 1882. 4:42

Nassa obsoleta Say

Buccinum obsoletum Say. DeKay, Nat. Hist. N. Y. 1843.
p.133

Buccinum obsoletum Say. Jay, Cat. 1852. p.361

Buccinum noveboracensis Gray. Jay, Cat. 1852. p.361

Buccinum olivaeforme Kien. Jay, Cat. 1852. p.361

Nassa obsoleta Say. Jay, Cat. 1852. p.364

Nassa obsoleta Say. Smith & Prime, An. Lyc. N. Y. IX. 1870.
p.397

Nassa obsoleta Say. Tryon, Man. Conch. 1882. 4:60

Family **COLUMBELLIDAE**

Genus **COLUMBELLA** Lamarck

Columbella avara Say

Colombella avara Say. DeKay, Nat. Hist. N. Y. 1843. p.139

Columbella avara Say. Jay, Cat. 1852. p.347

Columbella avara Say. Smith & Prime, An. Lyc. N. Y. IX.
1870. p.398

Columbella avara Say. Tryon, Man. Conch. 1883. 5:159

Columbella lunata Say

Buccinum lunatum Say. DeKay, Nat. Hist. N. Y. 1843.
p.131

Buccinum wheatleyi DeK. DeKay, Nat. Hist. N. Y. 1843.
p.132

Buccinum lunatum Say. Jay, Cat. 1852. p.361

Columbella lunata Say. Smith & Prime, An. Lyc. N. Y. IX.
1870. p.398

Columbella gouldiana Agassiz. Smith & Prime, An. Lyc. N. Y.
IX. 1870. p.398

Columbella lunata Say. Tryon, Man. Conch. 1883. 5:130

Genus **BELA** Gray

Bela decussata Couthouy

Pleurotoma decussata Couth. DeKay, Nat. Hist. N. Y.
1843. p.150

Bela decussata Couth. Tryon, Man. Conch. 1884. 6:217

Bela harpularia Couthouy

Fusus harpularius Couth. DeKay, Nat. Hist. N. Y. 1843.
p.146

Bela harpularia Couth. Tryon, Man. Conch. 1884. 6:219

Bela bicarinata Couthouy

Pleurotoma bicarinata Couth. DeKay, Nat. Hist. N. Y.
1843. p.149

Pleurotoma bicarinatum Couth. Verrill, U. S. Fish Com.
Rep't 1871-72. p.638 (Stonington Ct.).

Bela bicarinata Couth. Tryon, Man. Conch. 1884. 6:214

Bela concinnula Verrill

Bela concinnula Ver. Tryon, Man. Conch. 1884. 6:220

Bela pleurotomaria Couthouy

Fusus rufus Mont. DeKay, Nat. Hist. N. Y. 1843. p.146

Mangelia pyramidalis St. Smith & Prime, An. Lyc. N. Y.
IX. 1870. p.398

Bela pleurotomaria Couth. Gould, Invert. Mass. ed. 2. 1870.
p.355

Genus **CLATHURELLA** Recluz

Clathurella plicata Adams

Pleurotoma plicata Ads. DeKay, Nat. Hist. N. Y. 1843. p.150

Pleurotoma plicatum Ads. Smith & Prime, An. Lyc. N. Y.
1870. 9:398

Clathurella plicata Ads. Tryon, Man. Conch. 1884. 6:277

Subgenus *DAPHNELLA* Hinds***Daphnella morchi* Malon***Daphnella morchi* Malon. Tryon, Man. Conch. 1884. 6:315***Daphnella agassizi* Verrill & Smith***Daphnella agassizii* Ver. & Sm. Tryon, Man. Conch. 1884. 6:316***Daphnella cerina* Kurtz & Stimpson***Pleurotoma cerinum* K. & St. Smith & Prime, An. Lyc. N. Y. 1870. 9:398*Daphnella cerina* K. & St. Tryon, Man. Conch. 1884. 6:310Family *NATICIDAE*Genus *NATICA* Lamarck***Natica pusilla* Say***Natica pusilla* Say. DeKay, Nat. Hist. N. Y. 1843. p.123*Natica pusilla* Say. Jay, Cat. 1852. p.293*Natica pusilla* Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:396*Natica pusilla* Say. Tryon, Man. Conch. 1886. 8:31***Natica duplicata* Say***Natica duplicata* Say. DeKay, Nat. Hist. N. Y. 1843. p.121*Natica duplicata* Say. Jay, Cat. 1852. p.292*Natica duplicata* Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:396*Natica duplicata* Say. Tryon, Man. Conch. 1886. 8:33***Natica heros* Say***Natica heros* Say. DeKay, Nat. Hist. N. Y. 1843. p.120*Natica triseriata* Say. DeKay, Nat. Hist. N. Y. 1843. p.121*Natica heros* Say. Jay, Cat. 1852. p.292*Natica triseriata* Say. Jay, Cat. 1852. p.293*Natica triseriata* Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:395*Natica heros* Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:395*Natica triseriata* Say. Tryon, Man. Conch. 1886. 8:36*Natica heros* Say. Tryon, Man. Conch. 1886. 8:35***Natica immaculata* Totten***Natica immaculata* Tott. DeKay, Nat. Hist. N. Y. 1843. p.122*Natica immaculata* Tott. Smith & Prime, An. Lyc. N. Y. 1870. 9:396*Natica immaculata* Tott. Tryon, Man. Conch. 1886. 8:38

Natica clausa Sowerby

Natica clausa Sby. DeKay, Nat. Hist. N. Y. 1843. p.122

Natica clausa Sby. Jay, Cat. 1852. p.291

Natica clausa Sby. Tryon, Man. Conch. 1886. 8:30

Natica flava Gould

Natica flava Gld. DeKay, Nat. Hist. N. Y. 1843. p.123

Natica flava Gld. Tryon, Man. Conch. 1886. 8:52

Genus **SIGARETUS** Lamarck**Sigaretus perspectivus** Say

Sigaretus perspectivus Say. DeKay, Nat. Hist. N. Y. 1843. p.153

Sigaretus perspectivus Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:396

Sigaretus perspectivus Say. Tryon, Man. Conch. 1886. 8:57

Genus **VELUTINA** Fleming**Velutina laevigata** Pennant

Velutina laevigata Penn. DeKay, Nat. Hist. N. Y. 1843. p.154

Velutina laevigata Penn. Tryon, Man. Conch. 1886. 8:65

Velutina zonata Gould

Velutina zonata Gld. DeKay, Nat. Hist. N. Y. 1843. p.154

Velutina zonata Gld. Tryon, Man. Conch. 1886. 8:66

Family **LAMELLARIIDAE**Genus **LAMELLARIA** Montagu**Lamellaria pellucida** Verrill

Lamellaria pellucida Ver. Tryon, Man. Conch. 1886. 8:61

Lamellaria glabra Couthouy

Lamellaria glabra Couth. Tryon, Man. Conch. 1886. 8:64

Family **CALYPTRAEIDAE**Genus **CRUCIBULUM** Schumacher**Crucibulum striatum** Say

Calyptraea striata Say. DeKay, Nat. Hist. N. Y. 1843. p.155

Calyptraea striata Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:392

Crucibulum striatum Say. Tryon, Man. Conch. 1886. 8:118

Genus **CREPIDULA** Lamarck**Crepidula fornicata** Lamarck

Crepidula fornicata Lam. DeKay, Nat. Hist. N. Y. 1843. p.157

- Crepidula fornicata* Lam. Jay, Cat. 1852. p.107
Crepidula fornicata Lam. Smith & Prime, An. Lyc. N. Y.
1870. 9:392
Crepidula fornicata Lam. Tryon, Man. Conch. 1886. 8:124

***Crepidula convexa* Say**

- Crepidula convexa* Say. DeKay, Nat. Hist. N. Y. 1843. p.158
Crepidula convexa Say. Jay, Cat. 1852. p.107
Crepidula convexa Say. Smith & Prime, An. Lyc. N. Y.
1870. 9:392
Crepidula convexa Say. Tryon, Man. Conch. 1886. 8:125

***Crepidula plana* Say**

- Crepidula plana* Say. DeKay, Nat. Hist. N. Y. 1843. p.158
Crepidula plana Say. Jay, Cat. 1852. p.107
Crepidula unguiformis Lam. Smith & Prime, An. Lyc. N. Y.
1870. 9:392
Crepidula unguiformis Lam. Tryon, Man. Conch. 1886. 8:130

***Crepidula glauca* Say**

- Crepidula glauca* Say. DeKay, Nat. Hist. N. Y. 1843. p.159
Crepidula glauca Say. Tryon, Man. Conch. 1886. 8:125

Family SOLARIIDAE

Genus TORINIA Gray .

***Torinia borealis* Verrill & Smith**

- Torinia borealis* Ver. & Sm. Tryon, Man. Conch. 1887. 9:22

Genus SCALA Humphrey

***Scala angulata* Say**

- Scalaria angulata* Say. Tryon, Man. Conch. 1887. 9:70

***Scala multistriata* Say**

- Scalaria multistriata* Say. DeKay, Nat. Hist. N. Y. 1843. p.126
Scalaria multistriata Say. Tryon, Man. Conch. 1887. 9:72

***Scala humphreysii* Kien**

- Scalaria humphreysii* Kien. Smith & Prime, An. Lyc. N. Y.
1870. 9:395

***Scala lineata* Say**

- Scalaria lineata* Say. DeKay, Nat. Hist. N. Y. 1843. p.126
Scalaria lineata Say. Jay, Cat. 1852. p.300

Scalaria lineata Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:394

Scalaria lineata Say. Tryon, Man. Conch. 1887. 9:79

Family **IANTHINIDAE**

Genus **IANTHINA** Lamarck

Ianthina fragilis Bruguière

Ianthina fragilis Brug. DeKay, Nat. Hist. N. Y. 1843. p.125

Ianthina fragilis Brug Tryon, Man. Conch. 1887. 9:36

Family **TURRITELLIDAE**

Genus **TURRITELLA** Lamarck

Turritella erosa Couthouy

Turritella erosa Couth. DeKay, Nat. Hist. N. Y. 1843. p.113

Turritella erosa Couth. Tryon, Man. Conch. 1886. 8:208

Family **VERMETIDAE**

Genus **VERMETUS** Adanson

Vermetus spiratus radícula Stimpson

Vermetus radícula St. Smith & Prime, An. Lyc. N. Y. 1870.
9:394

Vermetus spiratus v. radícula St. Tryon, Man. Conch.
1886. 8:187

Family **CAECIDAE**

Genus **CAECUM** Fleming

Caecum cooperi Smith

Caecum cooperii Sm. Smith & Prime, An. Lyc. N. Y. 1870.
9:393

Caecum cooperi Sm. Verrill, Ct. Acad. Arts & Sci. 1882. 5:525

Caecum cooperii Sm. Tryon, Man. Conch. 1886. 8:221

Caecum pulchellum Stimpson

Caecum pulchellum St. Smith & Prime, An. Lyc. N. Y. 1870.
9:393

Caecum pulchellum St. Tryon, Man. Conch. 1886. 8:217

Family **EULIMIDAE**

Genus **EULIMA** Risso

Eulima intermedia Cantraine

Eulima intermedia Cant. Tryon, Man. Conch. 1886. 8:274

Eulima oleacea Kurtz & Stimpson

Eulima oleacea K. & St. Smith & Prime, An. Lyc. N. Y. 1870.
9:395

Eulima oleacea K. & St. Tryon, Man. Conch. 1886. 8:273

Genus **STYLIFER** Broderip

Stylifer stimpsoni Verrill

Stylifer stimpsonii Ver. Tryon, Man. Conch. 1886. 8:298

Family **TURBONILLIDAE**

Genus **TURBONILLA** Risso

Turbonilla interrupta Totten

Turritella interrupta Tott. DeKay, Nat. Hist. N. Y. 1843.
p.112

Chemnitzia interrupta Tott. Smith & Prime, An. Lyc. N. Y.
1870. 9:395

Turbonilla interrupta Tott. Tryon, Man. Conch. 1886. 8:329

Turbonilla elegans Verrill

Turbonilla elegans Ver. Verrill, U. S. Fish Com. Rep't 1871-72.
p.657. (Long Island sound near New Haven)

Turbonilla elegans Ver. Verrill, Ct. Acad. Arts & Sci. 1882.
5:538

Turbonilla elegans Ver. Tryon, Man. Conch. 1886. 8:328

Turbonilla stricta Verrill

Turbonilla stricta Ver. Verrill, U. S. Fish Com. Rep't 1871-72.
p.659. (Long Island sound near New Haven)

Turbonilla stricta Ver. Verrill, Ct. Acad. Arts & Sci. 1882.
5:537

Turbonilla stricta Ver. Tryon, Man. Conch. 1886. 8:329

Turbonilla costulata Verrill

Turbonilla costulata Ver. Verrill, U. S. Fish Com. Rep't
1871-72. p.658. (Long Island sound near New Haven)

Turbonilla costulata Ver. Verrill, Ct. Acad. Arts & Sci. 1882.
5:537

Turbonilla costulata Ver. Tryon, Man. Conch. 1886. 8:329

Turbonilla areolata Verrill

Turbonilla areolata Ver. Verrill, U. S. Fish Com. Rep't 1871-72.
p.658. (Long Island sound at New Haven)

Turbonilla areolata Ver. Verrill, Ct. Acad. Arts & Sci. 1882.
5:537

Turbonilla areolata Ver. Tryon, Man. Conch. 1886. 8:328

Turbonilla grandis Verrill

Turbonilla grandis Ver. Tryon, Man. Conch. 1886. 8:329

Genus *ACLIS* Lovèn***Aclis striata* Verrill**

Aclis striata Ver. Tryon, Man. Conch. 1887. 9:87

Genus *ODOSTOMIA* Fleming***Odostomia trifida* Totten**

Odostomia trifida Tott. DeKay, Nat. Hist. N.Y. 1843. p.114

Chemnitzia trifida Tott. Smith & Prime, An. Lyc. N. Y. 1870.

9:395

Odostomia trifida Tott. Tryon, Man. Conch. 1886. 8:356

***Odostomia bisuturalis* Say**

Chemnitzia bisuturalis Say. Smith & Prime, An. Lyc. N. Y.

1870. 9:395

Odostomia bisuturalis Say. Tryon, Man. Conch. 1886. 8:357

***Odostomia impressa* Say**

Odostomia insculpta DeKay. DeKay, Nat. Hist. N. Y. 1843.

p.115

Odostomia insculpta DeKay. Jay, Cat. 1852. p.475

Chemnitzia impressa Kurtz. Smith & Prime, An. Lyc. N. Y.

1870. 9:395

Odostomia impressa Say. Tryon, Man. Conch. 1886. 8:356

***Odostomia seminuda* Adams**

Odostomia seminuda Ads. DeKay, Nat. Hist. N. Y. 1843. p.115

Chemnitzia seminuda Ads. Smith & Prime, An. Lyc. N. Y.

1870. 9:395

Odostomia seminuda Ads. Tryon, Man. Conch. 1886. 8:357

***Odostomia fusca* Adams**

Odostomia fusca Ads. DeKay, Nat. Hist. N. Y. 1843. p.116

Chemnitzia fusca Ads. Smith & Prime, An. Lyc. N. Y. 1870.

9:395

Odostomia fusca Ads. Tryon, Man. Conch. 1886. 8:356

Family *LITTORINIDAE*Genus *LITTORINA* Ferussac***Littorina irrorata* Say**

Littorina irrorata Say. DeKay, Nat. Hist. N. Y. 1843. p.106

Littorina irrorata Say. Jay, Cat. 1852. p.310

Littorina irrorata Gray. Smith & Prime, An. Lyc. N. Y. 1870.

9:393

Littorina irrorata Say. Tryon, Man. Conch. 1887. 9:246

Littorina rudis Donovan

Littorina rudis Donovan. DeKay, Nat. Hist. N. Y. 1843. p.104

Littorina rudis Donovan. Smith & Prime, An. Lyc. N. Y. 1870.

9:392

Littorina rudis Donovan. Tryon, Man. Conch. 1887. 9:241

Littorina rudis obligata Say

Littorina rudis v. *obligata* Say. Tryon, Man. Conch. 1887.

9:241

Littorina rudis tenebrosa Montagu

Littorina tenebrosa Mont. DeKay, Nat. Hist. N. Y. 1843. p.105

Littorina tenebrosa Mont. Jay, Cat. 1852. p.311

Littorina rudis v. *tenebrosa* Mont. Tryon, Man. Conch. 1887.

9:242

Littorina littorea Linnaeus

Littorina littorea Linn. Tryon, Man. Conch. 1887. 9:240

Littorina palliata Say

Littorina palliata Say. DeKay, Nat. Hist. N. Y. 1843. p.106

Littorina palliata Say. Jay, Cat. 1852. p.131

Littorina littoralis Linn. Smith & Prime, An. Lyc. N. Y. 1870.

9:393

Littorina littoralis Linn. Tryon, Man. Conch. 1887. 9:242

Genus **LACUNA** Turton**Lacuna divaricata** Fabricius

Lacuna vincta Mont. DeKay, Nat. Hist. N. Y. 1843. p.111

Lacuna pertusa Conr. Jay, Cat. 1852. p.312

Lacuna vincta Turt. Smith & Prime, An. Lyc. N. Y. 1870. 9:393

Lacuna divaricata Fab. Tryon, Man. Conch. 1887. 9:266

Family **CERITHIIDAE**Genus **BITTIUM** Leach**Bittium nigrum** Totten

Cerithium sayi Gld. DeKay, Nat. Hist. N. Y. 1843. p.128

Cerithium sayi Mke. Smith & Prime, An. Lyc. N. Y. 1870. 9:394

Bittium nigrum Tott. Tryon, Man. Conch. 1887. 9:152

Genus **CERITHIOPSIS** Forbes & Hanley**Cerithiopsis greenii** C. B. Adams

Cerithium greenii Ads. Smith & Prime, An. Lyc. N. Y. 1870.

9:394

Cerithiopsis greenii Ads. Tryon, Man. Conch. 1887. 9:170

Cerithiopsis emersoni Stimpson

Cerithiopsis emersonii St. Smith & Prime, An. Lyc. N. Y.
1870. 9:397

Cerithiopsis punctatum Linn. Tryon, Man. Conch. 1887. 9:170

Cerithiopsis terebrale C. B. Adams

Cerithiopsis terebellum St. Smith & Prime, An. Lyc. N. Y.
1870. 9:397

Cerithiopsis terebrale Ads. Tryon, Man. Conch. 1887. 9:174

Genus **TRIFORIS** Deshayes**Triforis nigrocinctus** C. B. Adams

Cerithium nigrocinctum Ads. Smith & Prime, An. Lyc. N. Y.
1870. 9:394

Triforis nigrocinctus Ads. Tryon, Man. Conch. 1887. 9:188

Family **STREPOMATIDAE**Genus **PLEUROCERA** Rafinesque**Pleurocera subulare** Lea

Melania subularis Lea. Lea, Obs. Genus Unio. 1834. 1:110.
(Niagara river)

Melania subularis Lea. DeKay, Nat. Hist. N. Y. 1843. p.92.
(Lake Erie)

Melania subularis Lea. Jay, Cat. 1852. p.275. (Niagara river)

Pleurocera subulare Lea. Tryon, Am. Jour. Conch. 1865.
1:307. (Erie canal, St Lawrence, Niagara river)

Melania subularis Lea. Aldrich, Troy List. 1867. p.4.
(Mohawk river)

Trypanostoma subulare Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.139

Pleurocera subulare Lea. Tryon, Smith. Misc. Coll. 253. 1880
16:88. (Niagara river)

Pleurocera subulare Lea. Beauchamp, Onondaga List. 1886. p.6

Pleurocera subulare Lea. Walton, Rochester Acad. Sci. Proc.
1892. 2:4. (Lake Erie)

Pleurocera subulare Lea. Letson, N. Y. State Mus. Bul. 45.
1901. p.239. (Goat island. Post-Pliocene)

Pleurocera subulare intensum Anthony

Pleurocera intensum Anth. Beauchamp, Onondaga List.
1886. p.6

Pleurocera pallidum Lea

- Trypanostoma pallidum* Lea. Lea, Obs. Genus Unio. 1862. 9:97. (Niagara falls)
- Pleurocera pallidum* Lea. Tryon, Am. Jour. Conch. 1865. 1:311. (Niagara falls)
- Trypanostoma pallidum* Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.139. (Niagara river)
- Pleurocera pallidum* Lea. Tryon, Smith. Misc. Coll. 253. 1880. 16:112. (Niagara river)
- Pleurocera pallidum* Lea. Beauchamp, Onondaga List. 1886. p.6

Pleurocera elevatum Say

- Melania elevata* Say. Aldrich, Troy List. 1867. p.4
- Pleurocera elevatum* Say. Tryon, Smith. Inst. Coll. 253. 1880. 16:95

Genus **GONIObASIS** Lea**Goniobasis depygis** Say

- Melania depygis* Say. DeKay, Nat. Hist. N. Y. 1843. p.89. (Lake Champlain, Hudson river)
- Melania depygis* Say. Stimpson, List. 1851. p.32. (Lake Champlain)
- Goniobasis depygis* Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.139. (Lake Champlain)
- Goniobasis depygis* Say. Beauchamp, Onondaga List. 1886. p.6
- Goniobasis depygis* Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:4. (Irondequoit bay)

Goniobasis livescens Menke

- Melania livescens* Mke. Jay, Cat. 1852. p.274. (Lake Erie)
- Goniobasis livescens* Mke. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.139. (Niagara river)
- Goniobasis livescens* Mke. Tryon, Smith. Misc. Coll. 253. 1880. 16:248. (Lake Erie)
- Goniobasis livescens* Mke. Beauchamp, Onondaga List. 1886. p.6
- Goniobasis livescens* Mke. Walton, Rochester Acad. Sci. Proc. 1892. 2:4. (Erie canal)
- Goniobasis livescens* Mke. Letson, N. Y. State Mus. Bul. 45. 1901. p.239. (Goat island. Post-Pliocene)

Goniobasis niagarensis Lea

Melania niagarensis Lea. Lea, Obs. Genus Unio. 1842.
3:11. (Niagara falls)

Melania niagarensis Lea. DeKay, Nat. Hist. N. Y. 1843. p.90

Melania niagarensis Lea. Jay, Cat. 1852. p.274. (Niagara falls)

Goniobasis niagarensis Lea. Tryon, Smith. Misc. Coll. 253.
1880. 16:248

Goniobasis niagarensis Lea. Letson, N. Y. State Mus.
Bul. 45. 1901. p.240. (Goat island. Post-Pliocene)

Goniobasis haldemani Tryon

Goniobasis haldemani Try. Tryon, Am. Jour. Conch. 1865.
1:38. (Lakes Erie and Champlain)

Goniobasis haldemani Try. Tryon, Am. Jour. Conch. 1866.
2:38. (Lakes Erie and Champlain)

Goniobasis haldemani Try. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.139. (St Lawrence river)

Goniobasis haldemani Try. Tryon, Smith. Misc. Coll. 253.
1880. 16:282. (Lakes Erie and Champlain)

Goniobasis haldemani Try. Beauchamp, Onondaga List. 1886.
p.6. (Erie canal)

Goniobasis haldemani Try. Letson, N. Y. State Mus. Bul. 45.
1901. p.240. (Goat island. Post-Pliocene)

Goniobasis virginica Gmelin

Melania virginica Gmel. DeKay, Nat. Hist. N. Y. 1843. p.90.
(Raritan river)

Melania bizonalis DeK. DeKay, Nat. Hist. N. Y. 1843.
p.91. (Lake Champlain)

Melania gemma DeK. DeKay, Nat. Hist. N. Y. 1843. p.91.
(Onondaga county)

Melania virginica Gmel. Say, Conch. U. S. ed. by Binney.
1858. p.131. (Niagara falls)

Melania virginica Gmel. Aldrich, Troy List. 1867. p.4.
(Mohawk river)

Goniobasis virginica Gmel. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.139

Goniobasis gemma DeK. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.139. (Onondaga county)

Goniobasis virginica Gmel. Tryon, Smith. Misc. Coll. 253.
1880. 16:290

- Melania bizonalis* DeK. Tryon, Smith. Misc. Coll. 253. 1880.
16:293. (Lake Champlain)
- Melania gemma* DeK. Tryon, Smith. Misc. Coll. 253. 1880.
16:293. (Onondaga county)
- Goniobasis virginica* Gmel. Beauchamp, Onondaga List.
1886. p.6
- Goniobasis gemma* DeK. Beauchamp, Onondaga List. 1886. p.6
- Goniobasis virginica* Gmel. Walton, Rochester Acad. Sci.
Proc. 1892. 2:4. (Erie canal)
- Goniobasis multilineata* Say. Walton, Rochester Acad. Sci.
Proc. 1892. 2:4. (Erie canal)

Genus **ANCYLOSA** Say

Ancylosa carinata Bruguière

- Anculotus carinatus* DeK. DeKay, Nat. Hist. N. Y. 1843.
p.101. (Lake Champlain)
- Anculotus trivittatus* DeK. DeKay, Nat. Hist. N. Y. 1843.
p.102. (Lake Champlain)
- Anculotus carinatus* DeK. Jay, Cat. 1852. p.276. (Lake
Champlain)
- Anculosa dissimilis* Say. Say, Am. Jour. Conch. 1866. 2:126
- Anculosa carinata* Brug. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.139. (Cortland county)
- Anculosa carinata* Brug. Tryon, Smith. Misc. Coll. 253. 1880.
16:390. (Lake Champlain)

Family **RISSOIDAE**

Subfamily **BYTHININAE**

Genus **BYTHINIA** Gray

Bythinia tentaculata Linnaeus

- Bythinia tentaculata* Linn. Beauchamp, Onondaga List. 1886.
p.5. (Syracuse)
- Bythinia tentaculata* Linn. Walton, Rochester Acad. Sci. Proc.
2. 1892. p.4. (Erie canal)

Subfamily **SCENEINAE**

Genus **SCENEA** Fleming

Scenea planorbis Fabricius

- Skenea serpuloides* Ads. DeKay, Nat. Hist. N. Y. 1843. p.117
- Skenea planorbis* Fabr. Tryon, Man. Conch. 1887. 9:398

Subfamily **RISSOINAE**Genus **RISSEA** Fremenville**Rissoa minuta** Totten*Cingula minuta* Tott. DeKay, Nat. Hist. N. Y. 1843. p.110*Rissoa minuta* Tott. Tryon, Man. Conch. 1887. 9:346**Rissoa aculeus** Gould*Cingula aculeus* Gld. DeKay, Nat. Hist. N. Y. 1843. p.110*Rissoa aculeus* St. Smith & Prime, An. Lyc. N. Y. 1870. 9:393*Rissoa aculeus* Gld. Tryon, Man. Conch. 1887. 9:347**Rissoa stimpsoni** Smith*Rissoa stimpsoni* Smith. Smith & Prime, An. Lyc. N. Y. 1870. 9:393*Rissoa stimpsoni* Smith. Tryon, Man. Conch. 1887. 9:345**Rissoa laevis** DeKay*Cingula laevis* DeK. DeKay, Nat. Hist. N. Y. 1843. p.111*Rissoa laevis* DeK. Smith & Prime, An. Lyc. N. Y. 1870. 9:393*Hydrobia laevis* DeK. Verrill, Ct. Acad. Arts & Sci. 1882. 5:523*Rissoa laevis* DeK. Tryon, Man. Conch. 1887. 9:346**Rissoa latior** Mighels & Adams*Rissoa latior* Migh. & Ads. Tryon, Man. Conch. 1887. 9:357**Rissoa areolata** Stimpson*Rissoa areolata* St. Tryon, Man. Conch. 1887. 9:361Subfamily **HYDROBIINAE**Genus **BYTHINELLA** Moquin-Tandon**Bythinella attenuata** Haldeman*Bythinella attenuata* Hald. Binney, Smith. Misc. Coll. 144. 1865. p.68. (New York)**Bythinella obtusa** Lea*Bythinella obtusa* Lea. Binney, Smith. Misc. Coll. 144. 1865. 7:70*Bythinella obtusa* Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.138*Bythinella obtusa* Lea. Beauchamp, Onondaga List. 1886. p.5*Bythinella obtusa* Lea. Letson, N. Y. State Mus. Bul. 45. 1901. p.242. (Goat island. Post-Pliocene)

Genus *AMNICOLA* Gould & Haldeman*Amnicola sayana* Anthony

Amnicola sayana Anth. Binney, Smith. Misc. Coll. 144. 1865. 7:81

Amnicola sayana Anth. Beauchamp, Onondaga List. 1886. p.5. (Erie canal)

Amnicola pallida Haldeman

Amnicola pallida Hald. Binney, Smith. Misc. Coll. 144. 1865. 7:83. (Lake Champlain)

Amnicola pallida Hald. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.138. (Lake Champlain)

Amnicola pallida Hald. Beauchamp, Onondaga List. 1886. p.5

Amnicola pallida Hald. Walton, Rochester Acad. Sci. Proc. 1892. 2:4

Amnicola limosa Say

Amnicola porata Say. DeKay, Nat. Hist. N. Y. 1843. p.88. (Cayuga lake)

Paludina porata Say. Say, Conch. U. S. ed. by Binney. 1858. p.69. (Cayuga lake)

Amnicola limosa Say. Binney, Smith. Misc. Coll. 144. 1865. 7:84

Amnicola limosa Say. Aldrich, Troy List. 1867. p.4. (Hudson river)

Amnicola porata Gld. Smith & Prime, An. Lyc. N. Y. 1870. 9:392. (Long Island)

Amnicola porata Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.138. (Cayuga lake)

Amnicola limosa Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.138. (Cayuga lake)

Amnicola porata Say. Beauchamp, Onondaga List. 1886. p.5

Amnicola limosa Say. Beauchamp, Onondaga List. 1886. p.5

Amnicola porata Say. Walton, Rochester Acad. Sci. Proc. 2. 1892. p.4. (Erie canal)

Amnicola limosa Say. Walton, Rochester Acad. Sci. Proc. 2. 1892. p.4. (Genesee river)

Amnicola limosa Say. Letson, N. Y. State Mus. Bul. 45 1901. p.241. (Goat island. Post-Pliocene)

Amnicola cincinnatiensis Anthony

Amnicola cincinnatiensis Anth. Binney, Smith. Misc. Coll. 144. 1865. 7:85

Amnicola cincinnatiensis Anth. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.138

Amnicola cincinnatiensis Anth. Beauchamp, Onondaga List. 1886. p.5. (Erie canal)

***Amnicola orbiculata* Lea**

Amnicola orbiculata Lea. Binney, Smith. Misc. Coll. 144. 1865. 7:87. (Cayuga lake)

Amnicola orbiculata Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.138. (Cayuga lake)

Amnicola orbiculata Lea. Beauchamp, Onondaga List. 1886. p.5

Amnicola orbiculata Lea. Walton, Rochester Acad. Sci. Proc. 1892. 2:4

***Amnicola lustrica* Say**

Amnicola lustrica Say. DeKay, Nat. Hist. N. Y. 1843. p.87. (Lakes Champlain and Cayuga)

Paludina lustrica Say. Say, Conch. U. S. ed. by Binney. 1858. p.69. (Cayuga lake)

Pomatiopsis lustrica Say. Binney, Smith. Misc. Coll. 144. 1865. 7:94. (Cayuga lake and Mohawk river)

Amnicola lustrica Say. Aldrich, Troy List. 1867. p.5. (Hudson river)

Amnicola lustrica Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.138. (Cayuga lake)

Amnicola lustrica Say. Beauchamp, Onondaga List. 1886. p.5

Pomatiopsis lustrica Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:4

***Amnicola letsoni* Walker**

Amnicola letsoni Walk. Walker, Naut. 1901. 14:113. (Goat island. Post-Pliocene)

Amnicola letsoni Walk. Letson, N. Y. State Mus. Bul. 45. 1901. p.241. (Goat island. Post-Pliocene)

Genus LYOGYRUS Gill

***Lyogyrus granum* Say**

Amnicola granua Say. Beauchamp, Onondaga List. 1886. p.5. (Seneca river)

Amnicola granum Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:4

Subfamily LITHOGLYPHINAE

Genus GILLIA Stimpson

Gillia altilis Lea

- Gillia altilis* Lea. Binney, Smith. Misc. Coll. 144. 1865. 7:74
Gillia altilis Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.138
Gillia altilis Lea. Beauchamp, Onondaga List. 1886. p.5
Gillia altilis Lea. Walton, Rochester Acad. Sci. Proc. 1892
 2:4. (Erie canal)

Genus SOMATOGYRUS Gill

Somatogyrus isogonus Say

- Paludina isogona* Say. DeKay, Nat. Hist. N. Y. 1843. p.85.
 (Western New York)
Somatogyrus subglobosus Say. Lewis, Buf. Soc. Nat. Sci.
 Bul. 2. 1874. p.138
Somatogyrus isogonus Say. Beauchamp. Onondaga List.
 1886. p.5

Somatogyrus integer Say

- Somatogyrus integer* Say. Aldrich, Troy List. 1867. p.4.
 (Mohawk river)

Subfamily POMATIOPSISINAE

Genus POMATIOPSIS Tryon

Pomatiopsis lapidaria Say

- Pomatiopsis lapidaria* Say. Binney, Smith. Misc. Coll. 144.
 1865. 7:93
Pomatiopsis lapidaria Say. Letson, N. Y. State Mus. Bul. 45.
 1901. p.242. (Foster's flats. Post-Pliocene)

Family VALVATIDAE

Genus VALVATA Müller

Valvata tricarinata Say

- Valvata tricarinata* Say. DeKay, Nat. Hist. N. Y. 1843. p.118
Valvata unicarinata DeK. DeKay, Nat. Hist. N. Y. 1843.
 p.118. (Lake Champlain)
Valvata unicarinata DeK. Jay, Cat. 1852. p.278
Valvata carinata Say. Jay, Cat. 1852. p.277
Valvata tricarinata Say. Jay, Cat. 1852. p.278
Valvata tricarinata Say. Binney, Smith. Misc. Coll. 144.
 1865. p.9. (Herkimer county)
Valvata tricarinata Say. Aldrich, Troy List. 1867. p.3
Valvata tricarinata Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.137. (Little Lakes)

Valvata tricarinata Say. Beauchamp, Onondaga List. 1886.
p.5. (Onondaga lake)

Valvata tricarinata Say. Walton, Rochester Acad. Sci. Proc.
1892. 2:4. (Charlotte)

Valvata tricarinata Say. Letson, N. Y. State Mus. Bul. 45.
1901. p.243. (Goat island. Post-Pliocene)

***Valvata sincera* Say**

Valvata sincera Say. DeKay, Nat. Hist. N. Y. 1843. p.119.
(Lakes Oneida, Champlain and Chautauqua)

Valvata sincera Say. Jay, Cat. 1852. p.278

Valvata sincera Say. Binney, Smith. Misc. Coll. 144. 1865. 7:12

Valvata sincera Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.137

Valvata sincera Say. Beauchamp, Onondaga List. 1886. p.5.
(Seneca river)

Valvata sincera Say. Walton, Rochester Acad. Sci. Proc. 1892.
2:4. (Erie canal)

Valvata sincera Say. Letson, N. Y. State Mus. Bul. 45. 1901.
p.243. (Goat island. Post-Pliocene)

Family **PALUDINIDAE**

Genus **VIVIPARA** Montfort

***Vivipara contectoides* Binney**

Vivipara contectoides Binn. Binney, Smith. Misc. Coll. 144.
1865. 7:23

Vivipara contectoides Binn. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.137

Genus **CAMPELOMA** Rafinesque

***Campeloma ponderosum* Say**

Melantho ponderosa Say. Walton, Rochester Acad. Sci. Proc.
1892. 2:4. (Erie canal)

***Campeloma decisum* Say**

Paludina disscisa Say. DeKay, Nat. Hist. N. Y. 1843. p.84

Paludina integra Say. DeKay, Nat. Hist. N. Y. 1843. p.84.
(Hudson river)

Paludina decisa Say. Jay, Cat. 1852. p.279

Melantho decisa Say. Binney, Smith. Misc. Coll. 144.
1865. 7:41. (Erie canal, Mohawk, Greenwich, Buffalo, Lakes
Schuyler, Owasco and Cayuga)

Paludina decisa Say. Aldrich, Troy List. 1867. p.3. (Mohawk
basin)

- Paludina integra* Say. Aldrich, Troy List. 1867. p.3
Paludina rufa Hald. Aldrich, Troy List. 1867. p.3. (Mohawk basin)
Paludina decisa Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:392. (Jamaica L. I.)
Melantho decusus Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.137
Melantho integer Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.137
Melantho rufus Hald. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.137. (Buffalo)
Melantho decusus Say. Beauchamp, Onondaga List. 1886. p.5
Melantho rufus Hald. Beauchamp, Onondaga List. 1886. p.5. (Baldwinsville)
Melantho decisa Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:5. (Erie canal)
Melantho rufa Hald. Walton, Rochester Acad. Sci. Proc. 1892. 2:5. (Erie canal)
Melantho decisa var. *obesa* Lewis. Walton, Rochester Acad. Sci. Proc. 1892. 2:5. (Erie canal)
Melantho decisa var. *genicula* Conr. Walton, Rochester Acad. Sci. Proc. 1892. 2:5. (Erie canal)
Melantho decisa var. *integra* Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:5. (Erie canal)
Melantho decisa var. *heterostropha* Kirt. Walton, Rochester Acad. Sci. Proc. 1892. 2:5. (Erie canal)
Campeloma decisa Say. Letson, N. Y. State Mus. Bul. 45. 1901. p.243. (Goat island. Post-Pliocene)

Genus **LIOPLAX** Troschel

Lioplax subcarinata Say

- Lioplax subcarinatus* Say. Beauchamp, Onondaga List. 1886. p.5. (Erie canal)

Order SCUTIBRANCHIATA

Suborder PODOPTHALMA

Family **TROCHIDAE**

Genus **MARGARITA** Leach

Margarita ornata DeKay

- Margarita ornata* DeK. DeKay, Nat. Hist. N. Y. 1843. p.107

Margarita multilineata DeKay

Margarita multilineata DeK. DeKay, Nat. Hist. N. Y. 1843.
p.109

Subgenus **SOLARIELLA** Adams

Solariella obscura planula Verrill

Solariella obscura planula Ver. Tryon, Man. Conch. 1889.
9:309

Suborder **EDRIOPTHALMA**

Family **FISSURELLIDAE**

Genus **PUNCTURELLA** Lowe

Puncturella noachina Linnaeus

Cemoria noachina Linn. DeKay, Nat. Hist. N. Y. 1843. p.156

Puncturella noachina Linn. Tryon, Man. Conch. 1890. 12:222

Subfamily **ACMAEINAE**

Genus **ACMAEA** Escholtz

Acmaea testudinalis Müller

Patelloida testudinalis Müll. DeKay, Nat. Hist. N. Y. 1843.
p.162

Tectura testudinalis Gray. Smith & Prime, An. Lyc. N. Y.
1870. 9:392

Acmaea testudinalis Müll. Tryon, Man. Conch. 1891. 13:10

Acmaea testudinalis alveus Conrad

Patelloida alveus Conr. DeKay, Nat. Hist. N. Y. 1843. p.162

Lottia alveus Conr. Jay, Cat. 1852. p.103

Tectura alveus Conr. Smith & Prime, An. Lyc. N. Y. 1870. 9:392

Acmaea testudinalis var. *alveus* Conr. Tryon, Man. Conch.
1891. 13:10

Subclass **OPISTHOBRANCHIATA**

Order **TECTIBRANCHIATA**

Family **PHILINIDAE**

Genus **PHILINE** Ascanias

Philine quadratas Wood

Philine quadrata Wood. Tryon, Man. Conch. 1895. 16:19

Genus **SCAPHANDER** Montfort

Scaphander punctostriatus Mighels

Scaphander punctostriatus Migh. Tryon, Man. Conch.
1893. 15:246

Family TORNATELLIDAE

Subfamily TORNATELLINAE

Genus TORNATINA A. Adams

Tornatina canaliculata Say

Bulla canaliculata Say. DeKay, Nat. Hist. N. Y. 1843. p.19

Bulla obstricta Gld. DeKay, Nat. Hist. N. Y. 1843. p.15

Bulla canaliculata Say. Smith & Prime, An. Lyc. N. Y. 1870.

9:399

Tornatina canaliculata Say. Tryon, Man. Conch. 1893. 15:184

Genus ACTAEON Montfort

Actaeon punctostriata Adams

Tornatella punctostriata Ads. DeKay, Nat. Hist. N. Y. 1843. p.127

Tornatella puncto-striata Ads. Jay, Cat. 1852. p.296

Actaeon punctostriata Ads. Smith & Prime, An. Lyc. N. Y. 1870. 9:399

Actaeon punctostriata Ads. Tryon, Man. Conch. 1893. 15:157

Family CYLICHNIDAE

Genus CYLICHNA Lovèn

Cylichna oryza Totten

Bulla oryza Tott. DeKay, Nat. Hist. N. Y. 1843. p.18

Bulla oryza Tott. Smith & Prime, An. Lyc. N. Y. 1870. 9:399

Cylichna oryza Tott. Tryon, Man. Conch. 1893. 15:325

Cylichna alba Brown

Bulla triticea Couth. DeKay, Nat. Hist. N. Y. 1843. p.17

Cylichna alba Brn. Tryon, Man. Conch. 1893. 15:290

Genus RETUSA Brown

Retusa gouldi Couthouy

Bulla gouldii Couth. DeKay, Nat. Hist. N. Y. 1843. p.15

Retusa gouldii Couth. Tryon, Man. Conch. 1893. 15:217

Genus DIAPHANA Brown

Diaphana debilis Gould

Bulla debilis Gld. DeKay, Nat. Hist. N. Y. 1843. p.17

Diaphana debilis Gld. Tryon, Man. Conch. 1893. 15:281

Family BULLIDAE

Genus HAMINEA Leach

Haminea solitaria Say

Bulla insculpta Tott. DeKay, Nat. Hist. N. Y. 1843. p.14

Bulla insculpta Tott. Jay, Cat. 1852. p.113

Bulla insculpta Tott. Jay, Cat. 1852. p.470

Bulla solitaria Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:399

Haminea solitaria Say. Tryon, Man. Conch. 1893. 15:357

Order NUDIBRANCHIATA

Family AEOLIDAE

Subfamily AEOLINAE

Genus AEOLIS Cuvier

Aeolis salmonacea Couthouy

Cavolina salmonacea Couth. DeKay, Nat. Hist. N. Y. 1843.
p.11

Aeolis salmonacea Couth. Gould, Invert. Mass. 1870. p.240

Class PULMONATA

Order STYLOMMATOPHORA

Suborder MONOTREMATA

Family VITRINIDAE

Genus VITRINA Draparnaud

Vitrina limpida Gould

Vitrina limpida Gld. Tryon, Am. Jour. Conch. 1866. 2:243

Vitrina limpida Gld. Aldrich, Troy List. 1867. p.6. (Lans-
ingburg)

Vitrina limpida Gld. Binney, Smith. Misc. Coll. 194. 1869.
8:26. (Mohawk river)

Vitrina limpida Gld. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.130

Vitrina limpida Gld. Walton, Rochester Acad. Sci. Proc. 1892.
2:5. (Pittsford)

Vitrina limpida Gld. Pilsbry, List Naut. 1898. p.25

Family ZONITIDAE

Genus OMPHALINA Rafinesque

Omphalina fuliginosa Griffith

Helix fuliginosa Griff. DeKay, Nat. Hist. N. Y. 1843. p.37.
(Troy)

Hyalina fuliginosa Griff. Tryon, Am. Jour. Conch. 1866. 2:248

Helix fuliginosa Griff. Aldrich, Troy List. 1867. p.5. (Albany)

Zonites fuliginosa Griff. Binney, Smith. Misc. Coll. 194. 1869.
8:285

Omphalina fuliginosa Griff. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.133

Zonites fuliginosus Griff. Beauchamp, Onondaga List. 1886. p.2

Zonites fuliginosa Griff. Walton, Rochester Acad. Sci. Proc. 1892. 2:5. (Monroe county)

Omphalina fuliginosa Griff. Pilsbry, List Naut. 1898. p.24

***Omphalina inornata* Say**

Helix inornata Say. DeKay, Nat. Hist. N. Y. 1843. p.39. (Orange county)

Hyalina inornata Say. Tryon, Am. Jour. Conch. 1866. 2:249

Zonites inornata Say. Binney, Smith. Misc. Coll. 194. 1869. 8:289

Omphalina inornata Binn. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.133. (New Hartford)

Zonites inornatus Say. Beauchamp, Onondaga List. 1886. p.2

Zonites inornata Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:5. (Pittsford)

Omphalina inornata Say. Pilsbry, List Naut. 1898. p.25

Genus *VITREA* Fitzinger

***Vitrea cellaria* Müller**

Helix cellaria Müll. DeKay, Nat. Hist. N. Y. 1843. p.37

Hyalina cellaria Müll. Tryon, Am. Jour. Conch. 1866. 2:249

Hyalina cellaria Müll. Binney, Smith. Misc. Coll. 194. 1869. 8:30. (Long Island)

Helix cellaria Müll. Smith & Prime, An. Lyc. N. Y. 1870. 9:402. (Long Island)

Omphalina cellaria Müll. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.133

Vitrea cellaria Müll. Pilsbry, List Naut. 1898. p.25

***Vitrea hammonis* Ström.**

Helix electrina Gld. DeKay, Nat. Hist. N. Y. 1843. p.30. (Lake George)

Hyalina electrina Gld. Tryon, Am. Jour. Conch. 1866. 2:251

Hyalina viridula Mke. Binney, Smith. Misc. Coll. 194. 1869. 8:34. (Mohawk river)

Helix viridula Mke. Smith & Prime, An. Lyc. N. Y. 1870. 9:403. (Long Island)

Omphalina viridula Mke. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.134

Zonites viridulus Mke. Beauchamp, Onondaga List. 1886. p.3

Zonites viridula Mke. Walton, Rochester Acad. Sci. Proc.
1892. 2:6

Vitreia hammonis Ström. Pilsbry, List Naut. 1898. p.25

***Vitreia binneyana* Morse**

Helix binneyana Morse. Smith & Prime, An. Lyc. N. Y.
1870. 9:403. (Huntington L. I.)

Vitreia binneyana Morse. Pilsbry, List Naut. 1898. p.26

***Vitreia ferrea* Morse**

Hyalina ferrea Morse. Binney, Smith. Misc. Coll. 194.
1869. p.40

Omphalina ferrea Morse. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.134

Vitreia ferrea Morse. Pilsbry, List Naut. 1898. p.26

***Vitreia indentata* Say**

Helix indentata Say. DeKay, Nat. Hist. N. Y. 1843. p.31.
(Troy)

Hyalina indentata Say. Tryon, Am. Jour. Conch. 1866. 2:246

Hyalina indentata Say. Binney, Smith. Misc. Coll. 194.
1869. 8:35

Helix indentata Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:403. (Long Island)

Omphalina indentata Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.134

Zonites indentatus Say. Beauchamp, Onondaga List. 1886. p.3

Zonites indentata Say. Walton, Rochester Acad. Sci. Proc.
1892. 2:6. (Monroe county)

Vitreia indentata Say. Pilsbry, List Naut. 1898. p.26

Genus ZONITOIDES Lehmann

***Zonitoides nitidus* Müller**

Hyalina nitida Müll. Tryon, Am. Jour. Conch. 1866. 2:250

Hyalina nitida Müll. Binney, Smith. Misc. Coll. 194. 1869.
8:31. (Washington county)

Omphalina nitida Müll. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.134. (Cherry Valley)

Zonites nitidus Müll. Beauchamp, Onondaga List. 1886. p.3

Zonites nitida Müll. Walton, Rochester Acad. Sci. Proc. 1892.
2:6. (Monroe county)

Zonitoides nitidus Müll. Pilsbry, List Naut. 1898. p.27

Zonitoides arboreus Say

- Helix arborea* Say. DeKay, Nat. Hist. N. Y. 1843. p.30.
(Rockland county)
- Helix arborea* Say. Jay, Cat. 1852. p.120
- Hyalina arborea* Say. Tryon, Am. Jour. Conch. 1866. 2:251
- Helix arborea* Say. Aldrich, Troy List. 1867. p.5. (Troy)
- Hyalina arborea* Say. Binney, Smith. Misc. Coll. 194. 1869.
8:33. (Mohawk river)
- Helix arborea* Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:402. (Long Island)
- Omphalina arborea* Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.134
- Zonites arboreus* Say. Beauchamp, Onondaga List. 1886. p.3
- Zonites arborea* Say. Walton, Rochester Acad. Sci. Proc. 1892.
2:6. (Pittsford)
- Zonitoides arboreus* Say. Pilsbry, List Naut. 1898. p.27

Zonitoides limatulus Ward

- Pseudohyalina limatula* Ward. Tryon, Am. Jour. Conch.
1866. 2:264
- Hyalina limatula* Ward. Binney, Smith. Misc. Coll. 194.
1869. 8:36
- Zonites limatulus* Ward. Beauchamp, Onondaga List. 1886. p.3
- Zonitoides limatulus* Ward. Pilsbry, List Naut. 1898. p.27

Zonitoides minusculus Binney

- Pseudohyalina minuscula* Binn. Tryon, Am. Jour. Conch.
1866. 2:264
- Hyalina minuscula* Binn. Binney, Smith. Misc. Coll. 194.
1869. 8:37
- Omphalina minuscula* Binn. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.134
- Zonites minusculus* Binn. Beauchamp, Onondaga List. 1886. p.3
- Zonites minuscula* Binn. Walton, Rochester Acad. Sci. Proc.
1892. 2:6
- Zonitoides minusculus* Binn. Pilsbry, List Naut. 1898. p.27

Zonitoides exiguus Stimpson

- Hyalina exigua* St. Binney, Smith. Misc. Coll. 194. 1869. 8:42
- Omphalina exiguus* St. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.134
- Zonitoides exiguus* St. Pilsbry, List Naut. 1898. p.28

Zonitoides milium Morse

Zonitoides milium Morse. Pilsbry, List Naut. 1898. p.28

Genus **EUCONULUS** Reinhardt**Euconulus fulvus** Müller

Helix fulva Drap. Smith & Prime, An. Lyc. N. Y. 1870. 9:403.
(Long Island)

Conulus fulvus Müll. Pilsbry, List Naut. 1898. p.27

Euconulus chersinus Say

Helix chersina Say. DeKay, Nat. Hist. N. Y. 1843. p.44

Conulus chersina Say. Tryon, Am. Jour. Conch. 1866. 2:256

Helix chersina Say. Aldrich, Troy List. 1867. p.5.
(Mohawk)

Helix chersina Say. Binney, Smith Misc. Coll. 194. 1869. 8:46

Zonites chersina Say. Walton, Rochester Acad. Sci. Proc.
1892. 2:6. (Pittsford)

Genus **GASTRODONTA** Albers**Gastrodonta intertexta** Binney

Helix intertexta Binn. DeKay, Nat. Hist. N. Y. 1843. p.38.
(Ontario county)

Mesomphix intertexta Binn. Tryon, Am. Jour. Conch. 1866.
2:254

Hyalina intertexta Binn. Binney, Smith. Misc. Coll. 194. 1869.
8:44. (Sharon Springs)

Zonites intertextus Binn. Beauchamp, Onondaga List. 1886.
p.3

Zonites intertexta Binn. Walton, Rochester Acad. Sci. Proc.
1892. 2:5. (Monroe county)

Gastrodonta intertexta Binn. Pilsbry, List Naut. 1898. p.28

Gastrodonta ligera Say

Helix ligera Say. DeKay, Nat. Hist. N. Y. 1843. p.40. (Ontario
county)

Mesomphix ligera Say. Tryon, Am. Jour. Conch. 1866. 2:255

Hyalina ligera Say. Binney, Smith. Misc. Coll. 194. 1869. 8:44

Omphalina ligera Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.133. (Erie county)

Zonites ligerus Say. Beauchamp, Onondaga List. 1886. p.3

Gastrodonta ligera Say. Pilsbry, List Naut. 1898. p.28

Gastrodonta suppressa Say

- Helix suppressa* Say. DeKay, Nat. Hist. N. Y. 1843. p.38
Zonites suppressa Say. Binney, Smith. Misc. Coll. 194. 1869.
 8:293
Helix suppressa Say. Smith & Prime, An. Lyc. N. Y. 1870.
 9:380. (Westchester county)
Ventridens suppressa Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.134
Zonites suppressa Say. Walton, Rochester Acad. Sci. Proc.
 1892. 2:6. (Monroe county)
Gastrodonta suppressa Say. Pilsbry, List Naut. 1898. p.28

Gastrodonta multidentata Binney

- Gastrodonta multidentata* Binn. Tryon, Am. Jour. Conch.
 1866. 2:258
Helix multidentata Binn. Aldrich, Troy List. 1867. p.5.
 (Albany)
Hyalina multidentata Binn. Binney, Smith. Misc. Coll. 194.
 1869. 8:50
Ventridens multidentata Binn. Lewis, Buf. Soc. Nat. Sci.
 Bul. 2. 1874. p.134
Zonites multidentatus Binn. Beauchamp, Onondaga List.
 1886. p.3
Zonites multidentata Binn. Walton, Rochester Acad. Sci.
 Proc. 1892. 2:6. (Monroe county)
Gastrodonta multidentata Binn. Pilsbry, List Naut. 1898.
 p.29

Genus **PUNCTUM** Morse**Punctum pygmaeum** Draparnaud

- Conulus minutissima* Lea. Tryon, Am. Jour. Conch. 1866.
 2:257
Punctum minutissimum Lea. Binney, Smith. Misc. Coll. 194.
 1869. 8:222
Helix minutissima Lea. Smith & Prime, An. Lyc. N. Y. 1870.
 9:404. (Huntington)
Punctum minutissimum Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.132
Punctum pygmaeum Drap. Pilsbry, List Naut. 1898. p.33

Genus SPHYRADIUM Charp

Sphyradium edentulum Draparnaud

- Pupa simplex* Gld. DeKay, Nat. Hist. N. Y. 1843. p.52
Vertigo simplex Gld. Tryon, Am. Jour. Conch. 1867. 3:310
Vertigo simplex Gld. Binney, Smith. Misc. Coll. 194. 1869.
 8:254
Vertigo simplex Gld. Smith & Prime, An. Lyc. N. Y. 1870.
 9:404. (Long Island)
Isthmia simplex Gld. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
 p.133
Vertigo simplex Gld. Beauchamp, Onondaga List. 1886. p.2
Pupa simplex Gld. Walton, Rochester Acad. Sci. Proc. 1892. 2:10
Sphyradium edentulum Drap. Pilsbry, List Naut. 1898. p.33

Family HELICIDAE

Genus PYRAMIDULA Fitzinger

Pyramidula alternata Say

- Helix alternata* Say. DeKay, Nat. Hist. N. Y. 1843. p.29
Helix alternata Say. Jay, Cat. 1852. p.119
Helix radiata Gmel. Jay, Cat. 1852. p.169
Helix scabra Lam. Jay, Cat. 1852. p.173
Anguispira alternata Say. Tryon, Jour. Conch. 1866. 2:261
Helix alternata Say. Aldrich, Troy List. 1867. p.5
Helix alternata Say. Binney, Smith. Misc. Coll. 194. 1869. 8:73
Patula alternata Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
 p.131
Helix alternata Say. Beauchamp, Onondaga List. 1886. p.1
Patula alternata Say. Walton, Rochester Acad. Sci. Proc.
 1892. 2:8. (Monroe county)
Pyramidula alternata Say. Pilsbry, List Naut. 1898. p.31

Pyramidula striatella Anthony

- Helix striatella* Anth. DeKay, Nat. Hist. N. Y. 1843. p.43.
 (Oriskany)
Patula striatella Anth. Tryon, Am. Jour. Conch. 1866. 2:262
Helix striatella Anth. Aldrich, Troy List. 1867. p.6.
 (Islands in Hudson)
Helix striatella Anth. Binney, Smith. Misc. Coll. 194. 1869.
 8:80. (Mohawk)
Patula striatella Anth. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.131

Helix striatella Anth. Beauchamp, Onondaga List. 1886. p.1
Patula striatella Anth. Walton, Rochester Acad. Sci. Proc.
 1892. 2:8. (Monroe county)

Pyramidula striatella Anth. Pilsbry, List Naut. 1898. p.32

***Pyramidula solitaria* Say**

Helix solitaria Say. DeKay, Nat. Hist. N. Y. 1843. p.43

Helix solitaria Say. Binney, Smith. Misc. Coll. 194. 1869. 8:71

Patula solitaria Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
 p.131. (Western New York)

Pyramidula solitaria Say. Pilsbry, List Naut. 1898. p.31

***Pyramidula perspectiva* Say**

Helix perspectiva Say. DeKay, Nat. Hist. N. Y. 1843. p.42-
 (Lake Erie)

Helix perspectiva Say. Jay, Cat. 1852. p.163

Helix perspectiva Say. Say, Conch. U. S. ed. by Binney.
 1858. p.9. (Lake Erie)

Patula perspectiva Say. Tryon, Am. Jour. Conch. 1866. 2:262

Helix perspectiva Say. Binney, Smith. Misc. Coll. 194.
 1869. 8:79

Patula perspectiva Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.131

Helix perspectiva Say. Beauchamp, Onondaga List. 1886. p.1

Patula perspectiva Say. Walton, Rochester Acad. Sci. Proc.
 1892. 2:8. (Monroe county)

Pyramidula perspectiva Say. Pilsbry, List Naut. 1898. p.32

Genus ACANTHINULA Beck

***Acanthinula harpa* Say**

Zoogenites harpa Say. Tryon, Am. Jour. Conch. 1867. 3:311

Acanthinula harpa Say. Pilsbry, List Naut. 1898. p.7

Genus HELICODISCUS Morse

***Helicodiscus lineatus* Say**

Helix lineata Say. DeKay, Nat. Hist. N. Y. 1843. p.44. (Troy)

Helix lineata Say. Jay, Cat. 1852. p.151

Helicodiscus lineata Say. Tryon, Am. Jour. Conch. 1866. 2:264

Helix lineata Say. Aldrich, Troy List. 1867. p.5. (Albany)

Hyalina lineata Say. Binney, Smith. Misc. Coll. 194. 1869. 8:52

Helix lineata Say. Smith & Prime, An. Lyc. N. Y. 1870.
 9:403. (Long Island)

Helicodiscus lineatus Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.130

Helicodiscus lineatus Mse. Beauchamp, Onondaga List.
1886. p.1

Helicodiscus lineatus Say. Walton, Rochester Acad. Sci.
Proc. 1892. 2:8. (Monroe county)

Helicodiscus lineatus Say. Pilsbry, List Naut. 1898. p.33

Genus **POLYGYRA** Say

Polygyra tridentata Say

Helix tridentata Say. DeKay, Nat. Hist. N. Y. 1843. p.28

Helix tridentata Say. Jay, Cat. 1852. p.181

Helix tridentata Say. Aldrich, Troy List. 1867. p.6

Triodopsis tridentata Say. Tryon, Am. Jour. Conch. 1867. 3:50

Helix tridentata Say. Binney, Smith. Misc. Coll. 194.
1869. 8:129

Helix tridentata Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:380. (Staten Island)

Triodopsis tridentata Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.131

Helix tridentata Say. Beauchamp, Onondaga List. 1886. p.1

Triodopsis tridentata Say. Walton, Rochester Acad. Sci.
Proc. 1892. 2:7. (Rochester)

Polygyra tridentata Say. Pilsbry, List Naut. 1898. p.10

Polygyra tridentata juxtidentens Pilsbry

Polygyra juxtidentens Pils. Pilsbry, List Naut. 1898. p.10.
(Southern New York)

Polygyra fraudulenta Pilsbry

Helix fallax Say. DeKay, Nat. Hist. N. Y. 1843. p.28

Helix fallax Say. Jay, Cat. 1852. p.138

Triodopsis fallax Say. Tryon, Am. Jour. Conch. 1867. 3:51

Helix fallax Say. Binney, Smith. Misc. Coll. 194. 1869. 8:131

Triodopsis fallax Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.131

Triodopsis fallax Say. Walton, Rochester Acad. Sci. Proc.
1892. 2:7. (Rochester)

Polygyra fraudulenta Pils. Pilsbry, List Naut. 1898. p.10

Polygyra inflecta Say

Isognomostoma inflecta Say. Tryon, Am. Jour. Conch.
1867. 3:54

- Helix inflecta* Say. Binney, Smith. Misc. Coll. 194. 1869. 8:128
Polygyra inflecta Say. Pilsbry, List Naut. 1898. p.11.

***Polygyra profunda* Say**

- Helix profunda* Say. DeKay, Nat. Hist. N. Y. 1843. p.42
Ulostoma profunda Say. Tryon, Am. Jour. Conch. 1867. 3:37
Helix profunda Say. Binney, Smith. Misc. Coll. 194. 1869. 8:152
Mesodon profunda Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.132
Polygyra profunda Say. Pilsbry, List Naut. 1898. p.11.
 (Western New York)

***Polygyra sayi* Binney**

- Helix diodonta* Say. DeKay, Nat. Hist. N. Y. 1843. p.34
Helix diodonta Say. Binney ed. Say. 1858. p.30
Mesodon diodonta Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.132
Helix sayii Binn. Beauchamp, Onondaga List. 1886. p.2
Mesodon sayii Binn. Walton, Rochester Acad. Sci. Proc. 1892.
 2:7. (Pittsford)
Polygyra sayii Binn. Pilsbry, List Naut. 1898. p.12

***Polygyra albolabris* Say**

- Helix albolabris* Say. DeKay, Nat. Hist. N. Y. 1843. p.26
Helix rufa DeK. DeKay, Nat. Hist. N. Y. 1843. p.44. (Orange
 county)
Helix albolabris Say. Jay, Cat. 1852. p.119
Helix albolabris Say. Aldrich, Troy List. 1867. p.5. (Bald
 mountain)
Mesodon albolabris Say. Tryon, Am. Jour. Conch. 1867. 3:39
Helix albolabris Say. Binney, Smith. Misc. Coll. 194. 1869.
 8:136
Helix albolabris Say. Smith & Prime, An. Lyc. N. Y. 1870.
 9:403. (Long Island)
Mesodon albolabris Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.131
Helix albolabris Say. Beauchamp, Onondaga List. 1886. p.2
Mesodon albolabris Say. Walton, Rochester Acad. Sci. Proc.
 1892. 2:7. (Rochester)
Polygyra albolabris Say. Pilsbry, List Naut. 1898. p.12

Polygyra albolabris dentata Walker

Mesodon albolabris dentate var. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.131

Mesodon albolabris var. *dentata* Walton, Rochester Acad. Sci. Proc. 1892. 2:7. (Pittsford)

Polygyra exoleta Binney

Helix exoleta Binn. DeKay, Nat. Hist. N. Y. 1843. p.27. (Rockland county)

Helix zaleta Say. Jay, Cat. 1852. p.186

Helix exoleta Binn. Aldrich, Troy List. 1867. p.5. (Near Albany)

Mesodon exoleta Binn. Tryon, Am. Jour. Conch. 1867. 3:39

Helix exoleta Binn. Binney, Smith. Misc. Coll. 194. 1869. 8:144

Mesodon exoleta Binn. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.131

Polygyra exoleta Binn. Pilsbry, List Naut. 1898. p.12. (Western New York)

Polygyra multilineata Say

Helix multilineata Say. DeKay, Nat. Hist. N. Y. 1843. p.41. (Western New York)

Helix multilineata Say. Binney, Smith. Misc. Coll. 194. 1869. 8:139

Mesodon multilineata Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.131

Polygyra multilineata Say. Pilsbry, List Naut. 1898. p.12. (Western New York)

Polygyra dentifera Binney

Helix dentifera Binn. DeKay, Nat. Hist. N. Y. 1843. p.34

Mesodon dentifera Binn. Tryon, Am. Jour. Conch. 1867. 3:39

Helix dentifera Binn. Binney, Smith. Misc. Coll. 194. 1869. 8:145

Mesodon dentifera Binn. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.131. (Buffalo)

Polygyra dentifera Binn. Pilsbry, List Naut. 1898. p.12

Polygyra palliata Say

Helix palliata Say. DeKay, Nat. Hist. N. Y. 1843. p.33. (Niagara)

Helix palliata Say. Jay, Cat. 1852. p.161

Helix caroliniensis Lea. Jay, Cat. 1852. p.127

Helix palliata Say. Say, Conch. U. S. ed. by Binney. 1858. p.16.
(Niagara)

Xolotrema palliata Say. Tryon, Am. Jour. Conch. 1867.
3:49

Helix palliata Say. Aldrich, Troy List. 1867. p.5. (Near Troy)

Helix palliata Say. Binney, Smith. Misc. Coll. 194. 1869. 8:123

Triodopsis palliata Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.131

Helix palliata Say. Beauchamp, Onondaga List. 1886. p.1

Triodopsis palliata Say. Walton, Rochester Acad. Sci. Proc.
1892. 2:7. (Pittsford)

Polygyra palliata Say. Pilsbry, List Naut. 1898. p.13

***Polygyra appressa* Say**

Helix appressa Say. DeKay, Nat. Hist. N. Y. 1843. p.27

Helix appressa Say. Jay, Cat. 1852. p.120

Helix appressa Say. Say, Conch. U. S. ed. by Binney. 1858.
p.15. (Niagara falls)

Xolotrema appressa Say. Tyron, Am. Jour. Conch. 1867. 3:50

Helix appressa Say. Binney, Smith. Misc. Coll. 194. 1869. 8:126

Polygyra appressa Say. Pilsbry, List Naut. 1898. p.13

***Polygyra elevata* Say**

Helix elevata Say. DeKay, Nat. Hist. N. Y. 1843. p.36

Xolotrema elevata Say. Tryon, Am. Jour. Conch. 1867. 3:48

Helix elevata Say. Binney, Smith. Misc. Coll. 194. 1869. 8:142

Mesodon elevata Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.131

Polygyra elevata Say. Pilsbry, List Naut. 1898. p.13

***Polygyra pennsylvanica* Green**

Helix pennsylvanica Green. DeKay, Nat. Hist. N. Y. 1843.
p.41

Helix pennsylvanica Green. Binney, Smith. Misc. Coll. 194.
1869. 8:140

Polygyra pennsylvanica Green. Pilsbry, List Naut. 1898. p.13

***Polygyra thyroides* Say**

Helix thyroidus Say. DeKay, Nat. Hist. N. Y. 1843. p.29

Helix thyroides Say. Jay, Cat. 1852. p.180

Helix thyroidus Say. Say, Conch. U. S. ed. by Binney. 1858.
p.31. (Niagara falls)

Helix thyroidus Say. Aldrich, Troy List. 1867. p.6. (Near Bald mountain)

Mesodon thyroides Say. Tryon, Am. Jour. Conch. 1867. 3:41

Mesodon bucculenta Gld. Tryon, Am. Jour. Conch. 1867. 3:41

Helix thyroides Say. Binney, Smith. Misc. Coll. 194. 1869. 8:147

Helix thyroides Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:403. (Long Island)

Mesodon thyroides Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.131

Helix thyroides Say. Beauchamp, Onondaga List. 1886. p.2

Mesodon thyroides Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:7. (Rochester)

Polygyra thyroides Say. Pilsbry, List Naut. 1898. p.13

***Polygyra clausa* Say**

Helix clausa Say. DeKay, Nat. Hist. N. Y. 1843. p.31

Helix clausa Say. Binney, Smith. Misc. Coll. 194. 1869. 8:149

Polygyra clausa Say. Pilsbry, List Naut. 1898. p.13

***Polygyra hirsuta* Say**

Helix hirsuta Say. DeKay, Nat. Hist. N. Y. 1843. p.36

Helix hirsuta Say. Jay, Cat. 1852. p.144

Stenotrema hirsuta Say. Tryon, Am. Jour. Conch. 1867. 3:57

Helix hirsuta Say. Binney, Smith. Misc. Coll. 194. 1869. 8:118

Helix hirsuta Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:380. (Westchester county)

Stenotrema hirsuta Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.131. (New Hartford)

Stenotrema hirsuta Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:7. (Rochester)

Polygyra hirsuta Say. Pilsbry, List Naut. 1898. p.14

***Polygyra monodon* Racket**

Helix monodon Rack. DeKay, Nat. Hist. N. Y. 1843. p.35. (Troy)

Helix monodon Rack. Aldrich, Troy List. 1867. p.5. (Troy)

Stenotrema monodon Rack. Tryon, Am. Jour. Conch. 1867. 3:56

Helix monodon Rack. Binney, Smith. Misc. Coll. 194. 1869. 8:120

Helix monodon Rack. Smith & Prime, An. Lyc. N. Y. 1870.
9:380. (Westchester county)

Stenotrema monodon Rack. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.131

Helix monodon Rack. Beauchamp, Onondaga List. 1886. p.1

Stenotrema monodon Rack. Walton, Rochester Acad. Sci.
Proc. 1892. 2:7. (Rochester)

Polygyra monodon Rack. Pilsbry, List Naut. 1898. p.14

***Polygyra monodon fraterna* Say**

Helix fraterna Say. Jay, Cat. 1852. p.140

Stenotrema monodon var. *fraterna* Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:7. (Rochester)

Polygyra monodon fraterna Say. Pilsbry, List Naut. 1898.
p.15

***Polygyra leai* Ward**

Stenotrema monodon var. *leai* Ward. Walton, Rochester Acad. Sci. Proc. 1892. 2:7. (Rochester)

Genus VALLONIA Risso

***Vallonia pulchella* Müller**

Helix minuta Say. DeKay, Nat. Hist. N. Y. 1843. p.40.
(Essex county)

Vallonia minuta Say. Tryon, Am. Jour. Conch. 1867. 3:36

Helix minuta Say. Aldrich, Troy List. 1867. p.5. (Mohawk flats)

Helix pulchella Müll. Binney, Smith. Misc. Coll. 194. 1869.
p.157

Helix pulchella Müll. Smith & Prime, An. Lyc. N. Y. 1870.
9:403. (Long Island)

Vallonia pulchella Müll. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.132

Helix pulchella Müll. Beauchamp, Onondaga List. 1886. p.2

Vallonia pulchella Müll. Walton, Rochester Acad. Sci. Proc.
1892. 2:7. (Pittsford)

Vallonia pulchella Müll. Pilsbry, List Naut. 1898. p.7

***Vallonia excentrica* Sterki**

Vallonia excentrica Stk. Pilsbry, List Naut. 1898. p.7

***Vallonia costata* Müller**

Vallonia costata Müll. Pilsbry, List Naut. 1898. p.7

Genus *CIRCINARIA* Beck*Circinaria concava* Say

Helix concava Say. DeKay, Nat. Hist. N. Y. 1843. p.33

Macrocyclus concava Say. Tryon, Am. Jour. Conch. 1866.
2:245

Helix concava Say. Aldrich, Troy List. 1867. p.5. (Lansingburg)

Macrocyclus concava Say. Binney, Smith. Misc. Coll. 194.
1869. 8:56

Macrocyclus concava Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.131

Macrocyclus concava Say. Beauchamp, Onondaga List.
1886. p.1

Macrocyclus concava Say. Walton, Rochester Acad. Sci.
Proc. 1892. 2:5. (Pittsford)

Circinaria concava Say. Pilsbry, List Naut. 1898. p.24

Genus *HELIX* Linnaeus*Helix hortensis* Müller

Helix subglobosa Binn. DeKay, Nat. Hist. N. Y. 1843. p.32

Helix hortensis Müll. Smith & Prime, An. Lyc. N. Y. 1870.
9:404

Tachea hortensis Müll. Walton, Rochester Acad. Sci. Proc.
1892. 2:7. (East Rochester)

Family *PUPIDAE*Genus *PUPOIDES* Pfeiffer• *Pupoides marginatus* Say

Pupa fallax Say. DeKay, Nat. Hist. N. Y. 1843. p.51

Pupa fallax Say. Jay, Cat. 1852. p.226

Leucochila fallax Say. Tryon, Am. Jour. Conch. 1867. 3:305

Pupa fallax Say. Binney, Smith. Misc. Coll. 194. 1869. 8:239

Pupa fallax Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:404.
(Long Island)

Leucochila fallax Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.132. (Crown Point)

Pupa fallax Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:10.
(Rochester)

Leucochila fallax Say. Pilsbry, List Naut. 1898. p.19

Pupoides marginatus Say. Pilsbry, A. N. S. P. Proc. 1900.
p.605

Genus **PUPA** Lamarck**Pupa muscorum** Linnaeus

Pupa badia Ads. DeKay, Nat. Hist. N. Y. 1843. p.49. (Crown Point)

Pupa muscorum Linn. Jay, Cat. 1852. p.229

Pupilla badia Ads. Tryon, Am. Jour. Conch. 1867. 3:302

Pupa muscorum Linn. Binney, Smith. Misc. Coll. 194. 1869. 8:234. (Isles of St Lawrence)

Pupilla muscorum Linn. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.132. (Crown Point)

Pupa muscorum Linn. Walton, Rochester Acad. Sci. Proc. 1892. 2:10. (Brighton)

Pupa muscorum Linn. Pilsbry, List Naut. 1898. p.20

Pupa muscorum Linn. Pilsbry, A. N. S. P. Proc. 1900. p.605

Genus **VERTIGO** Müller**Vertigo ovata** Say

Pupa ovata Say. DeKay, Nat. Hist. N. Y. 1843. p.50

Pupa ovata Say. Jay, Cat. 1852. p.230

Vertigo ovata Say. Aldrich, Troy List. 1867. p.6. (Troy)

Vertigo ovata Say. Tryon, Am. Jour. Conch. 1867. 3:310

Vertigo ovata Say. Binney, Smith. Misc. Coll. 194. 1869. 8:252

Vertigo ovata Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:404. (Long Island)

Isthmia ovata Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.133

Vertigo ovata Say. Beauchamp, Onondaga List. 1886. p.2

Vertigo ovata Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:11

Vertigo ovata Say. Pilsbry, List Naut. 1898. p.22

Vertigo ovata Say. Pilsbry, A. N. S. P. Proc. 1900. p.608

Vertigo binneyana Sterki

Vertigo binneyana Stk. Pilsbry, List Naut. 1898. p.21

Vertigo binneyana Stk. Pilsbry, A. N. S. P. Proc. 1900. p.608

Vertigo pygmaea Draparnaud

Vertigo pygmaea Drap. Pilsbry, List Naut. 1898. p.22

Vertigo pygmaea Drap. Pilsbry, A. N. S. P. Proc. 1900. p.608

Vertigo tridentata Wolf

Vertigo tridentata Wolf. Pilsbry, List Naut. 1898. p.22

Vertigo tridentata Wolf. Pilsbry, A. N. S. P. Proc. 1900. p.608

Vertigo ventricosa Morse

Vertigo ventricosa Morse. Tryon, Am. Jour. Conch. 1867. 3:310. (Mohawk)

Vertigo ventricosa Morse. Binney, Smith. Misc. Coll. 194. 1869. 8:253

Isthmia ventricosa Morse. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.133

Vertigo ventricosa Morse. Beauchamp, Onondaga List. 1886. p.2

Vertigo ventricosa Morse. Pilsbry, List Naut. 1898. p.22

Vertigo ventricosa Morse. Pilsbry, A. N. S. P. Proc. 1900. p.609

Vertigo gouldi Binney

Pupa gouldii Binn. Jay, Cat. 1852. p.227

Vertigo gouldii Binn. Tryon, Am. Jour. Conch. 1867. 3:309

Vertigo gouldii Binn. Binney, Smith. Misc. Coll. 194. 1869. 8:249

Isthmia gouldii Binn. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.132

Vertigo gouldii Binn. Pilsbry, List Naut. 1898. p.22

Vertigo gouldii Binn. Pilsbry, A. N. S. P. Proc. 1900. p.609

Vertigo gouldi bollesiana Morse

Vertigo bollesiana Morse. Tryon, Am. Jour. Conch. 1867. 3:308

Vertigo bollesiana Morse. Binney, Smith. Misc. Coll. 194. 1869. 8:250

Isthmia bollesiana Morse. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.132

Vertigo bollesiana Morse. Beauchamp, Onondaga List. 1886. p.2

Vertigo bollesiana Morse. Pilsbry, List Naut. 1898. p.22

Vertigo gouldii bollesiana Morse. Pilsbry, A. N. S. P. Proc. 1900. p.609

Vertigo modesta Say

Pupa modesta Say. Jay, Cat. 1852. p.229

Vertigo modesta Say. Pilsbry, A. N. S. P. Proc. 1900. p.609

Vertigo milium Gould

Pupa milium Gld. DeKay, Nat. Hist. N. Y. 1843. p.48

Vertigo milium Gld. Tryon, Am. Jour. Conch. 1867. 3:309

- Vertigo milium* Gld. Binney, Smith. Misc. Coll. 194. 1869. 8:251
Vertigo milium Gld. Smith & Prime, An. Lyc. N. Y. 1870. 9:404.
 (Long Island)
Isthmia milium Gld. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
 p.133
Pupa milium Gld. Walton, Rochester Acad. Sci. Proc. 1892.
 2:10. (Monroe county)
Vertigo milium Gld. Pilsbry, List Naut. 1898. p.21
Vertigo milium Gld. Pilsbry, A. N. S. P. Proc. 1900. p.610

Genus *COCHLICOPA* Risso

***Cochlicopa lubrica* Müller**

- Bulimus lubricus* Brug. DeKay, Nat. Hist. N. Y. 1843. p.55.
 (Oriskany, Oneida county)
Zua subcylindrica Chem. Tryon, Am. Jour. Conch. 1867. 3:299
Achatina lubrica Müll. Aldrich, Troy List. 1867. p.6. (Mo-
 hawk basin)
Cionella subcylindrica Linn. Binney, Smith. Misc. Coll. 194.
 1869. 8:224
Zua subcylindrica Linn. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.132
Cionella subcylindrica Linn. Beauchamp, Onondaga List.
 1886. p.2
Ferussacia subcylindrica Linn. Walton, Rochester Acad.
 Sci. Proc. 1892. 2:11. (Monroe county)
Cochlicopa lubrica Müll. Pilsbry, List Naut. 1898. p.23

Genus *BIFIDARIA* Sterki

***Bifidaria corticaria* Say**

- Pupa corticaria* Say. DeKay, Nat. Hist. N. Y. 1843. p.50
Leucochila corticaria Say. Tryon, Am. Jour. Conch. 1867.
 3:307
Pupa corticaria Say. Binney, Smith. Misc. Coll. 194. 1869.
 8:244
Pupa corticaria Say. Smith & Prime, An. Lyc. N. Y. 1870.
 9:404. (Huntington)
Leucochila corticaria Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.132
Pupa corticaria Say. Beauchamp, Onondaga List. 1886. p.2
Pupa corticaria Say. Walton, Rochester Acad. Sci. Proc. 1892.
 2:10. (Pittsford)

Bifidaria corticaria Say. Pilsbry, List Naut. 1898. p.19

Bifidaria corticaria Say. Pilsbry, A. N. S. P. Proc. 1900. p.606

***Bifidaria rupicola* Say**

Pupa rupicola Say. Binney, Smith. Misc. Coll. 194. 1869. 8:243

Leucochila rupicola Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.132

Pupa rupicola Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:10. (Pittsford)

Bifidaria rupicola Say. Pilsbry, List Naut. 1898. p.19

Bifidaria rupicola Say. Pilsbry, A. N. S. P. Proc. 1900. p.607

***Bifidaria contracta* Say**

Pupa contracta Say. DeKay, Nat. Hist. N. Y. 1843. p.49. (Troy)

Pupa contracta Say. Jay, Cat. 1852. p.224

Leucochila contracta Say. Tryon, Am. Jour. Conch. 1867. 3:307

Pupa contracta Say. Binney, Smith. Misc. Coll. 194. 1869. 8:242. (Mohawk)

Pupa contracta Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:404. (Huntington)

Leucochila contracta Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.132

Pupa contracta Say. Beauchamp, Onondaga List. 1886. p.2

Pupa contracta Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:10. (Monroe county)

Bifidaria contracta Say. Pilsbry, List Naut. 1898. p.19

Bifidaria contracta Say. Pilsbry, A. N. S. P. Proc. 1900. p.607

***Bifidaria armifera* Say**

Pupa armifera Say. DeKay, Nat. Hist. N. Y. 1843. p.52. (Crown Point)

Leucochila armifera Say. Tryon, Am. Jour. Conch. 1867. 3:306

Pupa armifera Say. Binney, Smith. Misc. Coll. 194. 1869. 8:241

Pupa armifera Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:380. (Westchester county)

Leucochila armifera Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.132

Pupa armifera Say. Walton, Rochester Acad. Sci. Proc. 1892.
2:10. (Rochester)

Bifidaria armifera Say. Pilsbry, List Naut. 1898. p.19

Bifidaria armifera Say. Pilsbry, A. N. S. P. Proc. 1900. p.607

***Bifidaria pentodon* Say**

Pupa pentodon Say. DeKay, Nat. Hist. N. Y. 1843. p.50.
(Albany)

Pupa pentodon Say. Jay, Cat. 1852. p.230

Pupilla pentodon Say. Tryon, Am. Jour. Conch. 1867. 3:303

Pupa pentodon Say. Binney, Smith. Misc. Coll. 194. 1869. 8:236

Pupa pentodon Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:404. (Long Island)

Pupilla pentodon Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.132

Pupa pentodon Say. Beauchamp, Onondaga List. 1886. p.2

Pupa pentodon Say. Walton, Rochester Acad. Sci. Proc. 1892.
2:10. (Rochester)

Bifidaria pentodon Say. Pilsbry, List Naut. 1898. p.20

Bifidaria pentodon Say. Pilsbry, A. N. S. P. Proc. 1900. p.608

***Bifidaria curvidens* Gould**

Bifidaria curvidens Gld. Pilsbry, List Naut. 1898. p.20

Bifidaria curvidens Gld. Pilsbry, A. N. S. P. Proc. 1900. p.608

Genus STROBILOPS Pilsbry

***Strobilops labyrinthica* Say**

Helix labyrinthica Say. DeKay, Nat. Hist. N. Y. 1843.
p.39. (Troy)

Helix labyrinthica Say. Jay, Cat. 1852. p.148

Strobila labyrinthica Say. Tryon, Am. Jour. Conch. 1866.
2:259

Helix labyrinthica Say. Binney, Smith. Misc. Coll. 194.
1869. 8:84

Helix labyrinthica Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:403. (Greenport)

Strobila labyrinthica Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.131

Helix labyrinthica Say. Beauchamp, Onondaga List. 1886. p.1

Strobila labyrinthica Say. Walton, Rochester Acad. Sci. Proc.
1892. 2:8. (Pittsford)

Strobilops labyrinthica Say. Pilsbry, List Naut. 1898. p.18

Strobilops virgo Pilsbry

Strobilops virgo Pils. Pilsbry, List Naut. 1898. p.19

Strobilops affinis Pilsbry

Strobilops affinis Pils. Pilsbry, List Naut. 1898. p.19

Family LIMACIDAE

Genus LIMAX Linnaeus

Limax maximus Linnaeus

Limax maximus Linn. Smith & Prime, An. Lyc. N. Y. 1870.
9:403. (Long Island)

Limax maximus Linn. Walton, Rochester Acad. Sci. Proc.
1892. 2:8. (Monroe county)

Limax maximus Linn. Pilsbry, List Naut. 1898. p.29. (Lock-
port. Mr E. P. VanDuzee)

Limax flavus Linnaeus

Limax flavus Linn. DeKay, Nat. Hist. N. Y. 1843. p.21.
(New York city)

Limax flavus Linn. Tryon, Am. Jour. Conch. 1867. 3:314

Limax flavus Linn. Binney, Smith. Misc. Coll. 194. 1869. 8:61

Limax flavus Linn. Smith & Prime, An. Lyc. N. Y. 1870.
9:403. (Long Island)

Eulimax flavus Linn. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.131

Limax flavus Linn. Beauchamp, Onondaga List. 1886. p.1

Limax flavus Linn. Walton, Rochester Acad. Sci. Proc. 1892.
2:8. (Monroe county)

Limax flavus Linn. Pilsbry, List Naut. 1898. p.29

Family TEBENNOPHORIDAE

Genus PHILOMYCUS (Raf.) Ferussac

Philomycus carolinensis Bosc

Tebennophorus carolinensis Bosc. DeKay, Nat. Hist.
N. Y. 1843. p.24

Tebennophorus carolinensis Bosc. Tryon, Am. Jour.
Conch. 1867. 3:316

Tebennophorus carolinensis Bosc. Binney, Smith. Misc.
Coll. 194. 1869. 8:297

Tebennophorus carolinensis Binn. Smith & Prime, An.
Lyc. N. Y. 1870. 9:404. (Long Island)

Tebennophorus carolinensis Bosc. Lewis, Buf. Soc. Nat.
Sci. Bul. 2. 1874. p.134

Tebennophorus carolinensis Bosc. Beauchamp, Onondaga List. 1886. p.3

Tebennophorus carolinensis Bosc. Walton, Rochester Acad. Sci. Proc. 1892. 2:8

Philomycus carolinensis Bosc. Pilsbry, List Naut. 1898. p.29, 31

***Philomycus dorsalis* Binney**

Tebennophorus dorsalis Binn. Tryon, Am. Jour. Conch. 1867. 3:317

Tebennophorus dorsalis Binn. Binney, Smith. Misc. Coll. 194. 1869. 8:300

Tebennophorus dorsalis Binn. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.134

Tebennophorus dorsalis Binn. Beauchamp, Onondaga List. 1886. p.3

Tebennophorus dorsalis Binn. Walton, Rochester Acad. Sci. Proc. 1892. 2:8. (Monroe county)

Philomycus dorsalis Binn. Pilsbry, List Naut. 1898. p.31

Family ARIONIDAE

Genus ARION Ferussac

***Arion hortensis* Ferussac**

Arion hortensis Fer. DeKay, Nat. Hist. N. Y. 1843. p.23

Arion hortensis Fer. Pilsbry, A. N. S. P. Proc. 1898. p.239.
(Poughkeepsie)

Arion hortensis Fer. Pilsbry, List Naut. 1898. p.29.
(Poughkeepsie)

Genus AGRIOLIMAX Mörch

***Agriolimax agrestis* Linnaeus**

Limax agrestis Linn. DeKay, Nat. Hist. N. Y. 1843. p.20

Limax agrestis Müll. Tryon, Am. Jour. Conch. 1867. 3:315

Limax agrestis Linn. Binney, Smith. Misc. Coll. 194. 1869. 8:63

Limax agrestis Linn. Smith & Prime, An. Lyc. N. Y. 1870.
9:403. (Long Island)

Eulimax agrestis Linn. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.131

Limax agrestis Linn. Beauchamp, Onondaga List. 1886. p.1

Limax agrestis Linn. Walton, Rochester Acad. Sci. Proc. 1892.
2:8. (Monroe county)

Agriolimax agrestis Linn. Pilsbry, List Naut. 1898. p.29

Agriolimax campestris Binney

- Limax campestris* Binn. DeKay, Nat. Hist. N. Y. 1843. p.22
Limax campestris Binn. Binney, Smith. Misc. Coll. 194.
 1869. 8:65
Limax campestris Binn. Smith & Prime, An. Lyc. N. Y.
 1870. 9:403. (Long Island)
Eulimax campestris Binn. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.131
Limax campestris Binn. Beauchamp, Onondaga List. 1886. p.1
Limax campestris Walton. Walton, Rochester Acad. Sci. Proc.
 1892. 2:8. (Monroe county)
Agriolimax campestris Binn. Pilsbry, List Naut. 1898. p.29

Family **SUCCINEIDAE**Genus **SUCCINEA** Draparnaud**Succinea retusa** Lea

- Succinea ovalis* Say. DeKay, Nat. Hist. N. Y. 1843. p.53
Helix ovalis Say. Jay, Cat. 1852. p.161
Succinea ovalis Say. Jay, Cat. 1852. p.250
Succinea ovalis Say. Tryon, Am. Jour. Conch. 1866. 2:237
Succinea ovalis Say. Aldrich, Troy List. 1867. p.5
Succinea ovalis Gld. Binney, Smith. Misc. Coll. 194. 1869. 8:257
Succinea ovalis Say. Smith & Prime, An. Lyc. N. Y. 1870.
 9:380
Succinea ovalis Gld. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
 p.133
Succinea ovalis Gld. Beauchamp, Onondaga List. 1886. p.2
Succinea ovalis Gld. Walton, Rochester Acad. Sci. Proc. 1892.
 2:11
Succinea retusa Lea. Pilsbry, List Naut. 1898. p.34

Succinea obliqua Say

- Succinea obliqua* Say. DeKay, Nat. Hist. N. Y. 1843. p.53.
 (Herkimer county)
Succinea obliqua Say. Jay, Cat. 1852. p.473
Succinea obliqua Say. Tryon, Am. Jour. Conch. 1866. 2:232
Succinea obliqua Say. Aldrich, Troy List. 1867. p.5.
 (Albany)
Succinea obliqua Say. Binney, Smith. Misc. Coll. 194. 1869.
 8:265. (Mohawk)
Succinea obliqua Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
 p.133

Succinea obliqua Say. Beauchamp, Onondaga List. 1886. p.2
Succinea obliqua Say. Walton, Rochester Acad. Sci. Proc.
 1892. 2:11. (Monroe county)

Succinea obliqua Say. Pilsbry, List Naut. 1898. p.34

***Succinea obliqua totteniana* Lea**

Succinea totteniana Lea. Tryon, Am. Jour. Conch. 1866. 2:230

Succinea totteniana Lea. Aldrich, Troy List. 1867. p.5

Succinea totteniana Lea. Binney, Smith. Misc. Coll. 194. 1869.
 8:266

Succinea totteniana Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.133

Succinea totteniana Lea. Beauchamp, Onondaga List. 1886.
 p.2

Succinea totteniana Lea. Walton, Rochester Acad. Sci. Proc.
 1892. 2:11. (Monroe county)

Succinea obliqua totteniana Lea. Pilsbry, List Naut.
 1898. p.34

***Succinea avara* Say**

Succinea avara Say. DeKay, Nat. Hist. N. Y. 1843. p.54.
 (Near Lake Champlain)

Succinea avara Say. Jay, Cat. 1852. p.250

Succinea avara Say. Tryon, Am. Jour. Conch. 1866. 2:233

Succinea avara Say. Binney, Smith. Misc. Coll. 194. 1869. 8:262.
 (Mohawk river)

Succinea avara Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:404.
 (Long Island)

Succinea avara Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
 p.133

Succinea avara Say. Beauchamp, Onondaga List. 1886. p.2.
 (Seneca river)

Succinea avara Say. Walton, Rochester Acad. Sci. Proc. 1892.
 2:11. (Monroe county)

Succinea avara Say. Pilsbry, List Naut. 1898. p.34

***Succinea aurea* Lea**

Succinea aurea Lea. Tryon, Am. Jour. Conch. 1866. 2:241.
 (Niagara falls)

Succinea aurea Lea. Binney, Smith. Misc. Coll. 194. 1869. 8:264

Succinea aurea Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
 p.133. (Little Lakes)

Succinea aurea Lea. Walton, Rochester Acad. Sci. Proc. 1892.
2:11. (Monroe county)

Succinea aurea Lea. Pilsbry, List Naut. 1898. p.34

Order BASOMMATOPHORA

Suborder GEHYDROPHILA

Family AURICULIDAE

Genus ALEXIA Leach

Alexia myosotis Draparnaud

Auricula denticulata Mont. DeKay, Nat. Hist. N. Y. 1843.
p.58

Alexia myosotis Drap. Binney, Smith. Misc. Coll. 143. 1865.
7:4. (Long Island sound)

Melampus denticulatus St. Smith & Prime, An. Lyc. N. Y.
1870. 9:399

Alexia myosotis Drap. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.134

Genus MELAMPUS Montfort

Melampus lineatus Say

Auricula bidentata Say. DeKay, Nat. Hist. N. Y. 1843. p.57

Auricula bidentata Say. Jay, Cat. 1852. p.264

Auricula cornea Desh. Jay, Cat. 1852. p.264

Melampus bidentatus Say. Binney, Smith. Misc. Coll. 143.
1865. 7:10

Melampus lineatus Say. Binney, Smith. Misc. Coll. 143. 1865.
7:12

Melampus corneus St. Smith & Prime, An. Lyc. N. Y. 1870.
9:399

Melampus bidentatus Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.134

Suborder HYGROPHILA

Family LIMNAEIDAE

Subfamily LIMNAEINAE

Limnaea stagnalis Linnaeus

Limnea jugularis Say. DeKay, Nat. Hist. N. Y. 1843. p.74.
(Lakes Champlain and Onondaga)

Limnea appressa Say. DeKay, Nat. Hist. N. Y. 1843. p.74.
(Lakes Champlain and Cayuga)

Limnaea appressa Say. Stimpson, New Eng. Shells. 1851. p.52.
(Lake Champlain)

- Lymnaea jugularis* Say. Jay, Cat. 1852. p.269
Limnaea stagnalis Linn. Binney, Smith. Misc. Coll. 143. 1865.
 7:25. (Black river)
Limnaea stagnalis Linn. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
 1874. p.135
Limnaea stagnalis Linn. Beauchamp, Onondaga List. 1886.
 p.3. (Oneida lake)
Limnaea stagnalis Linn. Walton, Rochester Acad. Sci. Proc.
 1892. 2:11. (Brighton)

***Limnaea ampla* Mighels**

- Limnaea ampla* Migh. Binney, Smith. Misc. Coll. 143. 1865. 7:30
Limnaea ampla Migh. Aldrich, Troy List. 1867. p.3. (Dry river)
Radix ampla Migh. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.135

***Limnaea auricularia* Linnaeus**

- Limnaea auricularia* Linn. Call, Naut. 1902. 16:58.
 (Flatbush)

***Limnaea columella* Say**

- Limnea columella* Say. DeKay, Nat. Hist. N. Y. 1843. p.72
Lymnaea columella Say. Jay, Cat. 1852. p.269. (Cayuga lake)
Lymnaea macrostoma Say. Jay, Cat. 1852. p.270
Lymnaea navicula Val. Jay, Cat. 1852. p.270
Limnea macrostoma Say. Binney, Smith. Misc. Coll. 143.
 1865. 7:4
Limnea columella Say. Smith & Prime, An. Lyc. N. Y. 1870.
 9:402. (Greenport L. I.)
Radix columella Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
 p.135
Limnaea columella Say. Beauchamp, Onondaga List. 1886.
 p.3. (Seneca river)
Limnaea columella Say. Walton, Rochester Acad. Sci. Proc.
 1892. 2:12. (Erie canal)
Limnaea columella Say. Letson, N. Y. State Mus. Bul. 45.
 1901. p.244. (Goat island. Post-Pliocene)

***Limnaea megasoma* Say**

- Limnea megasoma* Say. DeKay, Nat. Hist. N. Y. 1843. p.70.
 (Lake Champlain)
Limnaea megasoma Say. Stimpson, New Eng. Shells. 1851.
 p.52. (Lake Champlain)

Limnaea megasoma Say. Binney, Smith. Misc. Coll. 143. 1865.
7:37. (Lake Champlain)

Bulinnea megosoma Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.135. (Lake Champlain)

***Limnaea reflexa* Say**

Limnea reflexa Say DeKay, Nat. Hist. N. Y. 1843. p.71.
(Herkimer county)

Lymnaea reflexa Say. Jay, Cat. 1852. p.270

Lymneus reflexus Say. Say, Conch. U. S. ed. by Binney.
1858. p.65. (Lake Erie)

Limnaea reflexa Say. Binney, Smith. Misc. Coll. 143. 1865.
7:38. (Lake Erie)

Limnophysa reflexa Say. Tryon, Am. Jour. Conch. 1865.
1:249. (Western New York)

Limnaea reflexa Say. Aldrich, Troy List. 1867. p.3. (Mohawk
river)

Limnophysa reflexa Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.135. (Western New York)

Limnaea reflexa Say. Walton, Rochester Acad. Sci. Proc. 1892.
2:12. (Rochester)

***Limnaea reflexa umbrosa* Say**

Limnea umbrosa Say. DeKay, Nat. Hist. N. Y. 1843. p.68

Lymnaea elongata Say. Jay, Cat. 1852. p.269

Lymnaea umbrosa Say. Jay, Cat. 1852. p.271

Limnophysa umbrosa Say. Tryon, Am. Jour. Conch. 1865.
1:250

Physa elongata Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:402. (Huntington L. I.)

Limnaea umbrosa Say. Beauchamp, Onondaga List. 1886. p.3

***Limnaea palustris* Müller**

Limnea fragilis Linn. DeKay, Nat. Hist. N. Y. 1843. p.68

Lymnaea elodes Say. Jay, Cat. 1852. p.269

Lymnaea fragilis Linn. Jay, Cat. 1852. p.269

Lymnaea palustris Drap. Jay, Cat. 1852. p.270

Lymneus elodes Say. Say, Conch. U. S. ed. by Binney. 1858.
p.66. (Canandaigua lake)

Limnaea palustris Müll. Binney, Smith. Misc. Coll. 143.
1865. 7:44

- Limnophysa palustris* Müll. Tryon, Am. Jour. Conch. 1865.
1:251. (Western New York)
- Limnaea elodes* Say. Aldrich, Troy List. 1867. p.3. (Troy)
- Limnophysa elodes* Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.135
- Limnaea elodes* Say. Beauchamp, Onondaga List. 1886. p.3
- Limnaea elodes* Say. Walton, Rochester Acad. Sci. Proc. 1892.
2:12. (Erie canal)

***Limnaea desidiosa* Say**

- Lymnaea fusiformis* Lea. Lea, Obs. Genus Unio. 1841. 4:10.
(Niagara river at Lewiston)
- Limnea desidiosa* Say. DeKay, Nat. Hist. N. Y. 1843. p.73
- Lymnaea desidiosa* Say. Jay, Cat. 1852. p.269
- Lymnaea acuta* Say. Jay, Cat. 1852. p.268
- Lymneus desidiosus* Say. Say, Conch. U. S. ed. by Binney.
1858. p.66. (Cayuga lake)
- Limnaea desidiosa* Say. Binney, Smith. Misc. Coll. 143. 1865.
7:48. (Cayuga lake)
- Limnaea desidiosa* Say. Aldrich, Troy List. 1867. p.3. (Mohawk
river)
- Limnea desidiosa* Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:402. (Long Island)
- Limnophysa desidiosa* Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.135
- Limnaea desidiosa* Say. Beauchamp, Onondaga List. 1886. p.3
- Limnaea desidiosa* Say. Walton, Rochester Acad. Sci. Proc.
1892. 2:12
- Limnaea desidiosa* Say. Letson, N. Y. State Mus. Bul. 45.
1901. p.244. (Goat island. Post-Pliocene)

***Limnaea emarginata* Say**

- Limnea emarginata* Say. DeKay, Nat. Hist. N. Y. 1843.
p.73. (Mohawk river)
- Limnaea emarginata* Say. Binney, Smith. Misc. Coll. 143.
1865. 7:51. (Owasco lake)
- Limnophysa emarginata* Say. Lewis, Buf. Soc. Nat. Sci.
Bul. 2. 1874. p.135
- Limnaea emarginata* Say. Beauchamp, Onondaga List. 1886.
p.3. (Cross lake)

Limnaea catascopium Say

- Limnaea catascopium* Say. DeKay, Nat. Hist. N. Y. 1843. p.67
Lymnaea catascopium Say. Jay, Cat. 1852. p.268
Limnaea catascopium Say. Binney, Smith. Misc. Coll. 143
 1865. 7:53. (Mohawk river)
Limnaea elodes var. *catascopium* Say. Aldrich, Troy List.
 1867. p.3
Limnophysa catascopium Say. Lewis, Buf. Soc. Nat. Sci.
 Bul. 2. 1874. p.135
Limnaea catascopium Say. Beauchamp, Onondaga List.
 1886. p.3
Limnaea catascopium Say. Walton, Rochester Acad. Sci.
 Proc. 1892. 2:12. (Rochester)
Limnaea catascopium Say. Letson, N. Y. State Mus. Bul. 45.
 1901. p.244. (Goat island. Post-Pliocene)

Limnaea caperata Say

- Limnaea caperata* Say. DeKay, Nat. Hist. N. Y. 1843. p.69.
 (Mohawk river)
Limnaea caperata Say. Binney, Smith. Misc. Coll. 143. 1865.
 7:56. (Mohawk river)
Limnaea umbilicata Ads. Aldrich, Troy List. 1867. p.3.
 (Hudson river)
Limnaea caperata Say. Smith & Prime, An. Lyc. N. Y. 1870.
 9:380. (Westchester county)
Limnophysa umbilicata Ads. Lewis, Buf. Soc. Nat. Sci.
 Bul. 2. 1874. p.135
Limnaea umbilicata Ads. Beauchamp, Onondaga List.
 1886. p.3
Limnaea caperata Say. Beauchamp, Onondaga List. 1886. p.3
Limnaea caperata Say. Walton, Rochester Acad. Sci. Proc.
 1892. 2:12. (Pittsford)

Limnaea pallida Adams

- Limnaea pallida* Ads. DeKay, Nat. Hist. N. Y. 1843. p.69.
 (Lake Champlain)
Limnaea pallida Ads. Stimpson, New Eng. Shells. 1851. p.52.
 (Lake Champlain)
Lymnaea pallida Ads. Jay, Cat. 1852. p.270
Limnaea pallida Ads. Binney, Smith. Misc. Coll. 143. 1865
 7:60. (Lake Champlain)

- Limnophysa pallida* Ads. Lewis, Buf. Soc. Nat. Sci. Bul. 2
1874. p.135
- Limnaea pallida* Ads. Beauchamp, Onondaga List. 1886. p.4.
(Onondaga lake)
- Limnaea pallida* Ads. Walton, Rochester Acad. Sci. Proc.
1892. 2:12. (Erie canal)

***Limnaea humilis* Say**

- Limnea humilis* Say. DeKay, Nat. Hist. N. Y. 1843. p.71
- Limnea linsleyi* DeK. DeKay, Nat. Hist. N. Y. 1843. p.72.
(Stratford)
- Lymnaea humilis* Say. Jay, Cat. 1852. p.269
- Limnaea humilis* Say. Binney, Smith. Misc. Coll. 143. 1865.
7:63. (Otsego county)
- Limnaea humilis* Say. Aldrich, Troy List. 1867. p.3. (Mohawk
river)
- Limnea humilis* Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:402. (Long Island)
- Limnophysa humilis* Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.135
- Limnaea humilis* Say. Beauchamp, Onondaga List. 1886. p.4

***Limnaea gracilis* Jay**

- Limnea gracilis* Say. DeKay, Nat. Hist. N. Y. 1843. p.70.
(Lake Champlain)
- Limnaea gracilis* Jay. Stimpson, New Eng. Shells. 1851. p.52.
(Lake Champlain)
- Limnaea gracilis* Jay. Binney, Smith. Misc. Coll. 143. 1865.
7:69. (Schuyler's lake)
- Acella gracilis* Jay. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.135. (Niagara river)

Genus *PHYSA* Draparnaud

***Physa gyrina* Say**

- Physa gyrina* Say. DeKay, Nat. Hist. N. Y. 1843. p.79.
(Northern New York)
- Physa elliptica* Lea. DeKay, Nat. Hist. N. Y. 1843. p.77
- Physa gyrina* Say. Binney, Smith. Misc. Coll. 143. 1865. 7:77
- Physa hildrethiana* Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.135
- Physa gyrina* Say. Beauchamp, Onondaga List. 1886. p.4
- Physa gyrina* Say. Walton, Rochester Acad. Sci. Proc. 1892.
2:12. (Erie canal)

Physa ancillaria Say

- Physa ancillaria* Say. DeKay, Nat. Hist. N. Y. 1843. p.79.
(Lake Champlain)
- Physa obesa* DeK. DeKay, Nat. Hist. N. Y. 1843. p.78. (Rensselaer county)
- Physa obesa* DeK. Jay, Cat. 1852. p.271
- Physa ancillaria* Say. Binney, Smith. Misc. Coll. 143. 1865.
7:81. (Hudson river)
- Physa ancillaria* Say. Tryon, Am. Jour. Conch. 1865. 1:167
- Physa ancillaria* Say. Aldrich, Troy List. 1867. p.3. (Hudson river)
- Physa ancillaria* Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:380. (Westchester county)
- Physa ancillaria* Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.135. (Owasco lake)
- Physa ancillaria* Say. Beauchamp, Onondaga List. 1886. p.4.
(Skaneateles)
- Physa ancillaria* Say. Walton, Rochester Acad. Sci. Proc. 1892.
2:12. (Rochester)

Physa heterostropha Say

- Physa heterostropha* Say. DeKay, Nat. Hist. N. Y. 1843.
p.76
- Physa cylindrica* Newc. DeKay, Nat. Hist. N. Y. 1843. p.77.
(Wayne county)
- Physa plicata* DeK. DeKay, Nat. Hist. N. Y. 1843. p.78. (New York island)
- Physa aurea* Lea. DeKay, Nat. Hist. N. Y. 1843. p.80. (West Point)
- Physa heterostropha* Say. Jay, Cat. 1852. p.271
- Physa plicata* DeK. Tryon, Am. Jour. Conch. 1865. 1:165
- Physa heterostropha* Say. Binney, Smith. Misc. Coll. 143.
1865. 7:84. (Mohawk river)
- Physa heterostropha* Say. Aldrich, Troy List. 1867. p.3.
(Hudson river)
- Physa heterostropha* Say. Smith & Prime, An. Lyc. N. Y.
1870. 9:402. (Long Island)
- Physa heterostropha* Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.136
- Physa heterostropha* Say. Beauchamp, Onondaga List.
1886. p.4

Physa heterostropha Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:12. (Rochester)

Physa heterostropha Say. Letson, N. Y. State Mus. Bul 45. 1901. p.245. (Goat island. Post-Pliocene)

***Physa integra* Ha'deman**

Physa niagarensis Lea. Lea, Obs. Genus Unio. 1864. 11:129. (Niagara river)

Physa niagarensis Lea. Tryon, Am. Jour. Conch. 1865. 1:168. (Niagara river)

Physa niagarensis Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.136. (Niagara river)

Isodora integra Hald. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.136

Physa niagarensis Lea. Beauchamp, Onondaga List. 1886. p.4. (Onondaga lake)

Physa niagarensis Lea. Crandall, Naut. 1901. 15:55. (Niagara river)

Genus *APLEXA* Leach

***Aplexa hypnorum* Linnaeus**

Physa glabra DeK. DeKay, Nat. Hist. N. Y. 1843. p.80. (Lake Champlain)

Physa elongata Say. DeKay, Nat. Hist. N. Y. 1843. p.81

Physa hypnorum Linn. Jay, Cat. 1852. p.271

Physa elongata Say. Jay, Cat. 1852. p.271

Physa glabra DeK. Tryon, Am. Jour. Conch. 1865. 1:171

Bulinus hypnorum Linn. Binney, Smith. Misc. Coll. 143. 1865. p.99

Physa hypnorum Linn. Aldrich, Troy List. 1867. p.4

Bulinus hypnorum Linn. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.136

Bulinus hypnorum Linn. Beauchamp, Onondaga List. 1886. p.4

Bulinus hypnorum Linn. Walton, Rochester Acad. Sci. Proc. 1892. 2:13. (Pittsford)

Subfamily *PLANORBINAE*

Genus *PLANORBIS* Guettard

***Planorbis campanulatus* Say**

Planorbis campanulatus Say. DeKay, Nat. Hist. N. Y. 1843. p.61. (Western New York)

Planorbis campanulatus Say. Jay, Cat. 1852. p.267

- Planorbis campanulatus* Say. Say, Conch. U. S. ed. by Binney. 1858. p.64. (Cayuga lake)
- Planorbis campanulatus* Say. Binney, Smith. Misc. Coll. 143. 1865. 7:109. (Little Lakes)
- Planorbis campanulatus* Say. Aldrich, Troy List. 1867. p.4. (Mohawk river)
- Planorbella campanulatus* Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.136
- Planorbis campanulatus* Say. Beauchamp, Onondaga List. 1886. p.4
- Planorbis campanulatus* Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:13. (Pittsford)

***Planorbis trivolvis* Say**

- Planorbis trivolvis* Say. DeKay, Nat. Hist. N. Y. 1843. p.59
- Planorbis megastoma* DeK. DeKay, Nat. Hist. N. Y. 1843. p.61. (Lake Ontario)
- Planorbis corpulentus* Say. DeKay, Nat. Hist. N. Y. 1843. p.64. (Lake Champlain)
- Physa planorbula* DeK. DeKay, Nat. Hist. N. Y. 1843. p.76. (Cohoes falls)
- Planorbis trivolvis* Say. Jay. Cat. 1852. p.268
- Planorbis trivolvis* Say. Say, Conch. U. S. ed by Binney. 1858. p.44. (French creek, near Lake Erie)
- Planorbis trivolvis* Say. Binney, Smith. Misc. Coll. 143. 1865. 7:115. (Niagara falls)
- Planorbis corpulentus* Say. Binney, Smith. Misc. Coll. 143. 1865. 7:114
- Planorbis trivolvis* Say. Aldrich, Troy List. 1867. p.4
- Planorbis trivolvis* Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:402. (Long Island)
- Helisoma trivolvis* Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.136
- Planorbis trivolvis* Say. Beauchamp, Onondaga List. 1886. p.4
- Planorbis trivolvis* Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:13. (Charlotte)

***Planorbis trivolvis lentus* Say**

- Planorbis lentus* Say. DeKay, Nat. Hist. N. Y. 1843. p.60. (Western New York)
- Planorbis lentus* Say. Binney, Smith. Misc. Coll. 143. 1865. 7:104

Planorbis lentus Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.136

Planorbis lentus Say. Beauchamp, Onondaga List. 1886. p.4

***Planorbis bicarinatus* Say**

Planorbis bicarinatus Say. DeKay, Nat. Hist. N. Y.
1843. p.60

Planorbis bicarinatus Say. Jay, Cat. 1852. p.267

Planorbis bicarinatus Say. Binney, Smith. Misc. Coll. 143.
1865. 7:123. (Herkimer county)

Planorbis bicarinatus Say. Aldrich, Troy List. 1867. p.4.
(Mohawk river)

Planorbis bicarinatus Say. Smith & Prime, An. Lyc. N. Y.
1870. 9:402. (Long Island)

Helisoma bicarinatus Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.136

Planorbis bicarinatus Say. Beauchamp, Onondaga List. 1886.
p.4

Planorbis bicarinatus Say. Walton, Rochester Acad. Sci.
Proc. 1892. 2:13 (Rochester)

Planorbis bicarinatus Say. Letson, N. Y. State Mus. Bul. 45.
1901. p.245. (Goat island. Post-Pliocene)

***Planorbis exacutus* Say**

Planorbis exacutus Say. DeKay, Nat. Hist. N. Y. 1843. p.63.

Planorbis exacutus Say. Jay, Cat. 1852. p.267

Planorbis exacutus Say. Say, Conch. U. S. ed. by Binney.
1858. p.64 (Lake Champlain)

Planorbis exacutus Say. Binney, Smith. Misc. Coll. 143.
1865. 7:126. (Lake Champlain)

Pianorbis exacutus Say. Aldrich, Troy List. 1867. p.4. (Hud-
son river)

Planorbis exacutus Say. Smith & Prime, An. Lyc. N. Y.
1870. 9:402. (Long Island)

Menetus exacutus Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.136

Planorbis exacutus Say. Beauchamp, Onondaga List. 1886. p.4

***Planorbis deflectus* Say**

Planorbis deflectus Say. DeKay, Nat. Hist. N. Y. 1843. p.65

Planorbis obliquus DeK. DeKay, Nat. Hist. N. Y. 1843.
p.62. (Mohawk river)

Planorbis deflectus Say. Binney, Smith. Misc. Coll. 143. 1865. 7:129

Planorbis deflectus Say. Aldrich, Troy List. 1867. p.4. (Mohawk river)

Gyraulus deflectus Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.136

Planorbis deflectus Say. Beauchamp, Onondaga List. 1886. p.4

Planorbis deflectus Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:13. (Brighton)

***Planorbis dilatatus* Gould**

Planorbis dilatatus Gld. DeKay, Nat. Hist. N. Y. 1843. p.66

Planorbis dilatatus Gld. Binney, Smith. Misc. Coll. 143. 1865. 7:131

Planorbis dilatatus Gld. Smith & Prime, An. Lyc. N. Y. 1870. 9:402. (Long Island)

Gyraulus dilatatus Gld. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.136

Planorbis dilatatus Gld. Beauchamp, Onondaga List. 1886. p.4

***Planorbis albus* Müller**

Planorbis hirsutus Gld. DeKay, Nat. Hist. N. Y. 1843. p.64

Planorbis albus Müll. Binney, Smith. Misc. Coll. 143. 1865. 7:132

Gyraulus albus Müll. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.136

Planorbis albus Müll. Beauchamp, Onondaga List. 1886. p.4

***Planorbis parvus* Say**

Planorbis parvus Say. DeKay, Nat. Hist. N. Y. 1843. p.63. (Mohawk river)

Planorbis elevatus Ads. DeKay, Nat. Hist. N. Y. 1843. p.65

Planorbis parvus Say. Jay, Cat. 1852. p.268

Planorbis parvus Say. Binney, Smith. Misc. Coll. 143. 1865. 7:133. (Mohawk river)

Planorbis parvus Gld. Aldrich, Troy List. 1867. p.4. (Mohawk river)

Planorbis parvus Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:402. (Long Island)

Gyraulus parvus Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.136

Planorbis parvus Say. Beauchamp, Onondaga List. 1886. p.4

Planorbis parvus Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:13. (Charlotte)

Planorbis parvus Say. Letson, N. Y. State Mus. Bul. 45. 1901. p.245. (Goat island. Post-Pliocene)

Genus *SEGMENTINA* Fleming

Segmentina armigera Say

Planorbis armigerus Say. DeKay, Nat. Hist. N. Y. 1843. p.62

Planorbis armigerus Say. Jay, Cat. 1852. p.267

Segmentina armigera Say. Binney, Smith. Misc. Coll. 143. 1865. 7:137

Planorbis armigerus Say. Aldrich, Troy List. 1867. p.4. (Mohawk basin)

Planorbis armigerus Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:402. (Long Island)

Planorbula armigera Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.136

Segmentina armigera Say. Beauchamp, Onondaga List. 1886. p.4

Segmentina armigera Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:13. (Brighton)

Subfamily *ANCYLINAE*

Genus *ANCYLUS* Geoffroy

Ancylus fuscus Adams

Ancylus fuscus Ads. DeKay, Nat. Hist. N. Y. 1843. p.13

Ancylus fuscus Ads. Binney, Smith. Misc. Coll. 143. 1865. 7:140

Ancylus fuscus Ads. Smith & Prime, An. Lyc. N. Y. 1870. 9:399. (Long Island)

Ancylus fuscus Ads. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.137

Ancylus parallelus Haldeman

Ancylus parallelus Hald. Binney, Smith. Misc. Coll. 143. 1865. 7:142

Ancylus parallelus Hald. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.137

Ancylus parallelus Hald. Beauchamp, Onondaga List. 1886. p.5

Ancylus parallelus Hald. Walton, Rochester Acad. Sci. Proc. 1892. 2:13. (Charlotte)

Ancylus rivularis Say

Ancylus rivularis Say. DeKay, Nat. Hist. N. Y. 1843. p.12

Ancylus rivularis Say. Binney, Smith. Misc. Coll. 143. 1865.
7:142

Ancylus rivularis Say. Beauchamp, Onondaga List. 1886. p.4

Ancylus rivularis Say. Walton, Rochester Acad. Sci. Proc.
1892. 2:13. (Genesee river)

Ancylus tardus Say

Ancylus tardus Say. Binney, Smith. Misc. Coll. 143. 1865. 7:143.
(Mohawk river)

Ancylus tardus Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.137. (Little Lakes)

Ancylus tardus Say. Walton, Rochester Acad. Sci. Proc. 1892.
2:13. (Irondequoit)

Ancylus calcarius DeKay

Ancylus calcarius DeK. DeKay, Nat. Hist. N. Y. 1843. p.13

Ancylus calcarius DeK. Binney, Smith. Misc. Coll. 143. 1865.
p.143

Ancylus borealis Morse

Ancylus borealis Morse. Binney, Smith. Misc. Coll. 143. 1865.
7:156. (Patten)

Genus GUNDLACHIA Pfeiffer

Gundlachia stimpsoniana Smith

Gundlachia stimpsoniana Smith. Smith & Prime, An. Lyc.
N. Y. 1870. 9:399. (Long Island)

Gundlachia sp.

Gundlachia sp. J. M. Clarke, Am. Jour. Sci. 1882. ser. 3.
23:248. (Canandaigua)

Class POLYPLACOPHORA

Family ISCHNOCHITONIDAE

Genus CHAETOPLEURA Shuttleworth

Chaetopleura apiculata Say

Chiton apiculatus Say. DeKay, Nat. Hist. N. Y. 1843. p.164

Chiton apiculatus Say. Jay, Cat. 1852. p.97

Chiton apiculatus Say. Smith & Prime, An. Lyc. N. Y.
1870. 9:392

Chaetopleura apiculata Say. Tryon, Man. Conch. 1892.
14:35

Genus **TRACHYDERMON** Carpenter**Trachydermon albus** Linnaeus*Chiton albus* Linn. DeKay, Nat. Hist. N. Y. 1843. p.163*Chiton albus* Linn. Smith & Prime, An. Lyc. N. Y. 1870. 9:392*Ischnochiton albus* Linn. Tryon, Man. Conch. 1892. 14:70Class **PELECYPODA**Order **SIPHONIDA**Suborder **SINUPALLIATA**Family **TEREDIDAE**Genus **TEREDO** Linnaeus**Teredo navalis** Linnaeus*Teredo navalis* Linn. DeKay, Nat. Hist. N. Y. 1843. p.249**Teredo dilatata** Stimpson*Teredo dilatata* St. Smith & Prime, An. Lyc. N. Y. 1870. 9:391.
(Greenport)Family **PHOLADIDAE**Subfamily **PHOLADINAE**Genus **PHOLAS** Linnaeus**Pholas costata** Linnaeus*Pholas truncata* Say. DeKay, Nat. Hist. N. Y. 1843. p.248.
(Westchester and Richmond counties)*Pholas truncata* Say. Jay, Cat. 1852. p.10*Pholas costata* Linn. Jay, Cat. 1852. p.10*Pholas truncata* Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:391. (Rockaway)*Pholas costata* Linn. Smith & Prime, An. Lyc. N. Y. 1870.
9:391Genus **ZIRFAEA** Leach**Zirfaea crispata** Linnaeus*Pholas crispata* Linn. DeKay, Nat. Hist. N. Y. 1843. p.247.
(Long Island)*Pholas crispata* Linn. Smith & Prime, An. Lyc. N. Y. 1870.
9:391Family **SOLENIIDAE**Genus **ENSIS** Schumacher**Ensis directus** Conrad*Solen ensis* Linn. DeKay, Nat. Hist. N. Y. 1843. p.242*Solen ensis* Linn. Jay, Cat. 1852. p.11*Solen vagina* Linn. Jay, Cat. 1852. p.11

Solen siliqua Linn. Jay, Cat. 1852. p.11

Solen ensis Linn. Smith & Prime, An. Lyc. N. Y. 1870. 9:389

Ensis directus Conr. Dall, Nat. Mus. Proc. 1900. 22:107

Genus *SILIQUEA* Megerle

Siliqua costata Say

Machaera costata Say. DeKay, Nat. Hist. N. Y. 1843. p.244

Machaera costata Say. Jay, Cat. 1852. p.12

Machaera costata Gld. Smith & Prime, An. Lyc. N. Y. 1870.
9:389. (Coney Island, Rockaway, East Hampton)

Siliqua costata Say. Dall, Nat. Mus. Proc. 1900. 22:108

Family *SOLENINAE*

Subfamily *PHARELLINAE*

Genus *TAGELUS* Gray

Tagelus gibbus Spengl

Solecurtus caribaeus Lam. DeKay, Nat. Hist. N. Y. 1843.
p.243. (Westchester county)

Solecurtus caribaeus Lam. Jay, Cat. 1852. p.12. (Westchester county)

Solecurtus gibbus F. & H. Smith & Prime, An. Lyc. N. Y.
1870. 9:389. (Long Island)

Tagelus divisus Spengl.

Solecurtus bidens F. & H. Smith & Prime, An. Lyc. N. Y.
1870. 9:389

Family *SAXICAVIDAE*

Genus *SAXICAVA* Fleuriau

Saxicava arctica Linnaeus

Saxicava distorta Say. DeKay, Nat. Hist. N. Y. 1843. p.227.
(Long Island)

Saxicava pholadis var. Lam. Jay, Cat. 1852. p.22

Saxicava arctica Desh. Smith & Prime, An. Lyc. N. Y. 1870.
9:390. (Long Island sound)

Family *MYACIDAE*

Genus *MYA* Linnaeus

Mya arenaria Linn.

Mya arenaria Linn. DeKay, Nat. Hist. N. Y. 1843. p.240.
(Long Island sound)

Mya arenaria Linn. Jay, Cat. 1852. p.13

Mya arenaria Linn. Smith & Prime, An. Lyc. N. Y. 1870. 9:390

Family CORBULIDAE

Genus CORBULA Lamarck

Corbula contracta Say

Corbula contracta Say. DeKay, Nat. Hist. N. Y. 1843. p.241.
(Long Island sound)

Corbula contracta Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:390

Family ANATINIDAE

Genus PANDORA Bruguere

Pandora trilineata Say

Pandora trilineata Say. DeKay, Nat. Hist. N. Y. 1843. p.239.
(Long Island sound)

Pandora trilineata Say. Jay, Cat. 1852. p.15

Pandora trilineata Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:390. (Montauk point)

Genus THRACIA Leach

Thracia conradi Couthouy

Thracia conradi Couth. DeKay, Nat. Hist. N. Y. 1843. p.237.
(Long Island sound)

Thracia conradi Couth. Smith & Prime, An. Lyc. N. Y. 1870.
9:390. (Greenport)

Thracia truncata Mighels

Thracia truncata Migh. Smith & Prime, An. Lyc. N. Y. 1870.
9:390

Genus COCHLODESMA Couthouy

Cochlodesma leana Conrad

Cochlodesma leana Conr. DeKay, Nat. Hist. N. Y. 1843. p.236

Cochlodesma leana Conr. Jay, Cat. 1852. p.16

Cochlodesma leanum Migh. Smith & Prime, An. Lyc. N. Y.
1870. 9:390

Genus LYONSIA Turton

Lyonsia hyalina Conrad

Osteodesma hyalina Conr. DeKay, Nat. Hist. N. Y. 1843. p.234

Osteodesma hyalina Conr. Jay, Cat. 1852. p.16

Lyonsia hyalina Conr. Smith & Prime, An. Lyc. N. Y. 1870.
9:390. (Greenport)

Genus **ANATINA** Lamarck

Anatina papyracea Say

- Anatina papyracea* Say. DeKay, Nat. Hist. N. Y. 1843. p.235
Anatina papyracea Say. Smith & Prime, An. Lyc. N. Y. 1870.
 9:389. (Gardiner's bay)

Family **MACTRIDAE**

Subfamily **MACTRINAE**

Genus **SPISULA** Gray

Spisula solidissima Chemnitz

- Macra solidissima* Chem. DeKay, Nat. Hist. N. Y. 1843.
 p.229. (Long Island sound)
Macra gigantea Lam. Jay, Cat. 1852. p.19
Macra solidissima Chem. Jay, Cat. 1852. p.19
Macra solidissima Chem. Smith & Prime, An. Lyc. N. Y.
 1870. 9:388

Genus **MULINIA** Gray

Mulinia lateralis Say

- Macra lateralis* Say. DeKay, Nat. Hist. N. Y. 1843. p.230.
 (Westchester county)
Macra lateralis Say. Jay, Cat. 1852. p.19
Macra lateralis Say. Smith & Prime, An. Lyc. N. Y. 1870.
 9:388. (Long Island sound)

Family **SEMELIDAE**

Genus **CUMINGIA** Sowerby

Cumingia tellinoides Conrad

- Cumingia tellinoides* Conr. DeKay, Nat. Hist. N. Y. 1843.
 p.233
Cumingia tellinoides Conr. Smith & Prime, An. Lyc. N. Y.
 1870. 9:388. (Montauk point)

Family **TELLINIDAE**

Genus **TELLINA** Lamarck

Tellina (Angulus) tenera Say

- Tellina tenera* Say. DeKay, Nat. Hist. N. Y. 1843. p.209
Tellina tenera Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:389
Tellina tenera Say. Stimpson, New Eng. Shells. 1851. p.21
Tellina (Angulus) tenera Say. Dall, Nat. Mus. Proc. 1901.
 23:295

Tellina (Angulus) tenella Verrill

Tellina (Angulus) tenella Ver. Dall, Nat. Mus. Proc. 1901.
23:295

Tellina (Angulus) versicolor Cozzens

Tellina versicolor Coz. DeKay, Nat. Hist. N. Y. 1843.
p.209. (Hudson river)

Tellina versicolor Coz. Stimpson, New Eng. Shells. 1851.
p.21. (Long Island sound)

Tellina (Angulus) versicolor Coz. Dall, Nat. Mus. Proc.
1901. 23:295

Tellina (Scissula) iris Say

Tellina iris Say. Jay, Cat. 1852. p.26

Tellina (Scissula) iris Say. Dall, Nat. Mus. Proc. 1901. 23:297

Genus **MACOMA** Leach**Macoma balthica** Linnaeus

Sanguinolaria fusca Say. DeKay, Nat. Hist. N. Y. 1843.
p.212. (Long Island sound)

Psammobia fusca Say. Jay, Cat. 1852. p.24

Tellina fusca Say. Jay, Cat. 1852. p.26

Tellina fusca Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:389. (Greenport)

Macoma balthica Linn. Dall, Nat. Mus. Proc. 1901. 23:298

Macoma calcarea Gmelin

Sanguinolaria sordida Couth. DeKay, Nat. Hist. N. Y.
1843. p.213

Macoma calcarea Gmel. Dall, Nat. Mus. Proc. 1901. 23:299.
(Long Island sound)

Macoma tenta Say

• *Tellina tenta* Say. DeKay, Nat. Hist. N. Y. 1843. p.210

Tellina tenta Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:389. (Greenport)

Macoma tenta Say. Dall, Nat. Mus. Proc. 1901. 23:299

Subfamily **DONACINAE**Genus **DONAX** Linnaeus**Donax fossor** Say

Donax fossor Say. DeKay, Nat. Hist. N. Y. 1843. p.211

Donax fossor Say. Jay, Cat. 1852. p.31

Donax fossor Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:388. (Long Island sound)

Family PETRICOLIDAE

Genus PETRICOLA Lamarck

Petricola dactylus Sowerby

Petricola dactylus Sow. DeKay, Nat. Hist. N. Y. 1843.
p.228. (Glasshouse point)

Petricola dactylus Say. Smith & Prime, An. Lyc. N. Y.
1870. 9:390

Petricola pholadiformis Lamarck

Petricola pholadiformis Lam. DeKay, Nat. Hist. N. Y.
1843. p.228. (Long Island sound)

Petricola pholadiformis Lam. Jay, Cat. 1852. p.23

Petricola pholadiformis Lam. Smith & Prime, An. Lyc.
N. Y. 1870. 9:390

Family VENERIDAE

Subfamily VENERINAE

Genus VENUS Linnaeus

Venus mercenaria Linnaeus

Venus mercenaria Linn. DeKay, Nat. Hist. N. Y. 1843.
p.217. (Long Island sound)

(?) *Venus praeoparea* Say. DeKay, Nat. Hist. N. Y. 1843.
p.219

Venus mercenaria Linn. Jay, Cat. 1852. p.40

Venus mercenaria Linn. Smith & Prime, An. Lyc. N. Y.
1870. 9:388

Venus mercenaria notata Say

Venus mercenaria var. *notata* Say. DeKay, Nat. Hist.
N. Y. 1843. p.218. (Long Island sound)

Venus notata Say. Jay, Cat. 1852. p.41

Venus notata Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:388.

Genus MERETRIX Lamarck

Meretrix convexa Say

Cytherea convexa Say. DeKay, Nat. Hist. N. Y. 1843. p.216.
(Long Island sound)

Cytherea convexa Say. Stimpson, New Eng. Shells. 1851.
p.19. (Long Island sound)

Cytherea convexa Say. Jay, Cat. 1852. p.35

Cytherea convexa Say. Smith & Prime, An. Lyc. N. Y.
1870. 9:388. (New York bay, East Hampton and Montauk)

Meretrix convexa Say. Dall, Zittel, Text-book Pal. 1900.
p.415

Subfamily DOSININAE

Genus GEMMA Deshayes

Gemma gemma Totten

Venus gemma Tott. DeKay, Nat. Hist. N. Y. 1843. p.218.
(East river)

Venus gemma Tott. Jay, Cat. 1852. p.40

Venus gemma Tott. Smith & Prime, An. Lyc. N. Y. 1870. 9:388

Gemma gemma manhattensis Prime

Venus manhattensis Prime. Jay, Cat. 1852. p.466

Venus manhattensis Prime. Prime, Pamph. 1862. (East river)

Venus manhattensis Prime. Smith & Prime, An. Lyc. N. Y.
1870. 9:388. (Hell Gate, Huntington and Greenport)

Suborder INTEGRIPALLIATA

Family CYRENIDAE

Genus SPHAERIUM Scopoli

Sphaerium simile Say

Cyclas similis Say. DeKay, Nat. Hist. N. Y. 1843. p.222.
(Orleans county)

Sphaerium sulcatum Lam. Prime, Monogr. 1862. p.4

Sphaerium sulcatum Lam. Prime, List. 1863. p.8. (Washington county)

Sphaerium sulcatum Lam. Prime, Smith. Misc. Coll. 145.
1865. 7:33

Sphaerium sulcatum Lam. Aldrich, Troy List. 1867. p.2.
(Mohawk river)

Sphaerium simile Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:380. (Westchester county)

Sphaerium simile Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.139

Sphaerium simile Say. Beauchamp, Onondaga List. 1886. p.6

Sphaerium similis Say. Walton, Rochester Acad. Sci. Proc.
1892. 2:18. (Erie canal)

Sphaerium simile Say. Sterki, Ms. 1902

Sphaerium rhomboideum Say

Cyclas rhomboidea Say. DeKay, Nat. Hist. N. Y. 1843.
p.224. (Rockland county)

Cyclas elegans Ads. DeKay, Nat. Hist. N. Y. 1843. p.224.
(Lake Champlain)

Cyclas rhomboidea Say. Say, Conch. U. S. ed. by Binney. 1858. p.111. (Lake Champlain)

Sphaerium rhomboideum Say. Prime, Monogr. 1862. p.7

Sphaerium rhomboideum Say. Prime, List. 1863. p.9.
(Washington county)

Sphaerium rhomboideum Say. Prime, Smith. Misc. Coll. 145. 1865. 7:39

Sphaerium rhomboideum Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.139

***Sphaerium striatinum* Lamarck**

Cyclas edentula Say. DeKay, Nat. Hist. N. Y. 1843. p.225.
(Canandaigua lake)

Cyclas edentula Say. Say, Conch. U. S. ed. by Binney. 1858. p.137. (Canandaigua lake)

Sphaerium striatinum Lam. Prime, Monogr. 1862. p.6

Sphaerium striatinum Lam. Prime, List. 1863. p.9.
(St Lawrence river)

Sphaerium striatinum Lam. Prime, Smith. Misc. Coll. 145. 1865. 7:37

Sphaerium striatinum Lam. Aldrich, Troy List. 1867. p.2.
(Mohawk river)

Sphaerium striatinum Lam. Smith & Prime, An. Lyc. N. Y. 1870. 9:380. (Westchester county)

Sphaerium striatinum Lam. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.139

Sphaerium striatinum Lam. Beauchamp, Onondaga List. 1886. p.6

Sphaerium striatinum Lam. Letson, N. Y. State Mus. Bul. 45. 1901. p.246. (Goat island. Post-Pliocene)

***Sphaerium solidulum* Prime**

Sphaerium solidulum Prime. Prime, Monogr. 1862. p.5

Sphaerium solidulum Prime. Prime, List. 1863. p.9.
(Herkimer county)

Sphaerium solidulum Prime. Prime, Smith. Misc. Coll. 145. 1865. 7:36

Sphaerium solidulum Prime. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.139

Sphaerium solidulum Prime. Beauchamp, Onondaga List. 1886. p.6

Sphaerium vermontanum Prime

Sphaerium vermontanum Prime. Prime, Monogr. 1862. p.9. (Lake Champlain)

Sphaerium vermontanum Prime. Prime, List. 1863. p.10. (Lake Champlain)

Sphaerium occidentale Prime

Sphaerium occidentale Prime. Prime, Monogr. 1862. p.8

Sphaerium occidentale Prime. Prime, List. 1863. p.10. (Herkimer county)

Sphaerium occidentale Prime. Prime, Smith. Misc. Coll. 145. 1865. 7:41

Sphaerium occidentale Prime. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140

Sphaerium occidentale Prime. Beauchamp, Onondaga List. 1886. p.6

Sphaerium fabale Prime

Sphaerium fabalis Prime. Prime, Monogr. 1862. p.8

Sphaerium fabalis Prime. Prime, List. 1863. p.10. (Greenwich)

Sphaerium fabalis Prime. Prime, Smith. Misc. Coll. 145. 1865. 7:40

Sphaerium fabale Prime. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140. (Wayne and Herkimer counties)

Sphaerium fabale Prime. Beauchamp, Onondaga List. 1886. p.6

Sphaerium stamineum Conrad

Sphaerium stamineum Conr. Beauchamp, Onondaga List. 1886. p.6

Sphaerium stamineum Conr. Letson, N. Y. State Mus. Bul. 45. 1901. p.246. (Goat island. Post-Pliocene)

Family CYCLADIDAE

Genus CALYCULINA Clessin

Calyculina transversa Say

Sphaerium transversum Say. Prime, Monogr. 1862. p.13

Sphaerium transversum Say. Prime, List. 1863. p.11. (Herkimer county)

Sphaerium transversum Say. Prime, Smith. Misc. Coll. 145. 1865. 7:48

- Sphaerium transversum* Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.140
- Sphaerium transversum* Say. Beauchamp, Onondaga List.
1886. p.6. (Erie canal)

***Calymene partumeia* Say**

- Cyclas partumeia* Say. DeKay, Nat. Hist. N. Y. 1843. p.223
- Sphaerium partumium* Say. Prime, Monogr. 1862. p.11
- Sphaerium partumeium* Say. Prime, List. 1863. p.10. (Lake George, Erie canal)
- Sphaerium partumeium* Say. Prime, Smith. Misc. Coll. 145.
1865. p.45
- Sphaerium partumeium* Say. Smith & Prime, An. Lyc. N. Y.
1870. 9:386. (Long Island)
- Sphaerium partumeium* Say. Lewis, Buf. Soc. Nat. Sci. Bul.
1874. 2:140
- Sphaerium partumeium* Say. Beauchamp, Onondaga List.
1886. p.6
- Sphaerium partumeium* Say. Walton, Rochester Acad. Sci.
Proc. 2. 1892. p.18. (Genesee river)
- Calymene partumeia* Say. Sterki, Naut. 1902. 16:92

***Calymene truncata* Linsley**

- Sphaerium truncatum* Lins. Prime, Monogr. 1862. p.17
- Sphaerium truncatum* Lins. Prime, List. 1863. p.11. (Lake Champlain)
- Sphaerium truncatum* Lins. Prime, Smith. Misc. Coll. 145.
1865. 7:51
- Sphaerium truncatum* Lins. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.140
- Sphaerium truncatum* Lins. Beauchamp, Onondaga List.
1886. p.6
- Calymene truncata* Lins. Sterki, Naut. 1902. 16:92

***Calymene rosacea* Prime**

- Sphaerium rosaceum* Prime. Prime, Smith. Misc. Coll. 145.
1865. 7:50
- Sphaerium rosaceum* Prime. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.140
- Calymene rosacea* Prime. Sterki, Naut. 1902. 16:92

Calyculina securis Prime

- Sphaerium securis* Prime. Prime, Monogr. 1862. p.16
Sphaerium securis Prime. Prime, List. 1863. p.11. (Staten Island)
Cyclas crocea Lewis. Prime, List. 1863. p.11. (Otsego county)
Sphaerium securis Prime. Prime, Smith. Misc. Coll. 145. 1865. 7:49
Sphaerium securis Prime. Aldrich, Troy List. 1867. p.2. (Mohawk basin)
Sphaerium securis Prime. Smith & Prime, An. Lyc. N. Y. 1870. 9:386. (Long Island)
Sphaerium secure Prime. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140
Sphaerium croceum Lewis. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140. (Herkimer county)
Sphaerium secure Prime. Beauchamp, Onondaga List. 1886. p.6
Calyculina securis Prime. Sterki, Naut. 1902. 16:93

Genus **PISIDIUM** Pfeiffer**Pisidium abditum** Haldeman

- Pisidium abditum* Hald. Prime, List. 1863. p.14. (Herkimer county, Buffalo)
Pisidium notatum Prime. Prime, List. 1863. p.15. (Greenwich)
Pisidium resartum Ingalls. Prime, List. 1863. p.15. (Greenwich)
Pisidium rubrum Lewis. Prime, List. 1863. p.15. (Herkimer county)
Pisidium plenum Lewis. Prime, List. 1863. p.15. (Otsego county)
Pisidium abditum Hald. Prime, Smith. Misc. Coll. 145. 1865. 7:68
Pisidium abditum Hald. Smith & Prime, An. Lyc. N. Y. 1870. 9:386. (Long Island)
Pisidium abditum Hald. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140
Pisidium abditum Hald. Beauchamp, Onondaga List. 1886. p.6
Pisidium abditum Hald. Letson, N. Y. State Mus. Bul. 45. 1901. p.247. (Goat island. Post-Pliocene)

Pisidium virginicum Bourguignat

- Cyclas dubia* Say. DeKay, Nat. Hist. N. Y. 1843. p.223. (Lake George)
- Pisidium virginicum* Bourg. Prime, List. 1863. p.13. (Hudson river, Buffalo)
- Pisidium virginicum* Bourg. Prime, Smith. Misc. Coll. 145. 1865. 7:61
- Pisidium virginicum* Bourg. Aldrich, Troy List. 1867. p.3. (Hudson river)
- Pisidium virginicum* Bourg. Smith & Prime, An. Lyc. N. Y. 1870. 9:380. (Westchester county)
- Pisidium virginicum* Bourg. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140
- Pisidium virginicum* Bourg. Beauchamp, Onondaga List 1886. p.6
- Pisidium virginicum* Gmel. Carpenter, Naut. 1901. 15:132
- Pisidium virginicum* Bourg. Letson, N. Y. State Mus. Bul. 45. 1901. p.247. (Goat island. Post-Pliocene)

Pisidium novi-eboracense Prime

- Pisidium nov. eboracense* Prime. Prime, List. 1863. p.14. (Herkimer and Otsego counties)
- Pisidium nov-eboracense* Prime. Prime, Smith. Misc. Coll. 145. 1865. 7:67
- Pisidium nov. eboracense* Prime. Smith & Prime, An. Lyc. N. Y. 1870. 9:380. (Westchester county)
- Pisidium novi-eboracense* Prime. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140
- Pisidium noveboracense* Prime. Beauchamp, Onondaga List. 1886. p.6

Pisidium ventricosum Prime

- Pisidium ventricosum* Prime. Prime, List. 1863. p.15. (Herkimer and Otsego counties)
- Pisidium ventricosum* Prime. Prime, Smith. Misc. Coll. 145. 1865. 7:72
- Pisidium ventricosum* Prime. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140

Pisidium aequilaterale Prime

- Pisidium aequilaterale* Prime. Prime, List. 1863. p.14. (Hudson river)

Pisidium aequilaterale Prime. Prime, Smith. Misc. Coll. 145-1865. 7:63

Pisidium aequilaterale Prime. Smith & Prime, An. Lyc. N. Y. 1870. 9:380. (Westchester county)

Pisidium aequilaterale Prime. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140

***Pisidium compressum* Prime**

Pisidium compressum Prime. Prime, List. 1863. p.14. (Herkimer and Otsego counties)

Pisidium compressum Prime. Prime, Smith. Misc. Coll. 145-1865. 7:64

Pisidium compressum Prime. Aldrich, Troy List. 1867. p.3. (Mohawk river)

Pisidium compressum Prime. Smith & Prime, An. Lyc. N. Y. 1870. 9:380. (Westchester county)

Pisidium compressum Prime. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140

Pisidium compressum Prime. Beauchamp, Onondaga List. 1886. p.6

Pisidium compressum Prime. Letson, N. Y. State Mus. Bul. 45. 1901. p.247. (Goat island. Post-Pliocene)

***Pisidium ferrugineum* Prime**

Pisidium ferrugineum Prime. Prime, List. 1863. p.15. (Herkimer county)

Pisidium ferrugineum Prime. Prime, Smith. Misc. Coll. 145-1865. 7:71

Pisidium ferrugineum Prime. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140

Pisidium ferrugineum Prime. Beauchamp, Onondaga List. 1886. p.6

***Pisidium variabile* Prime**

Pisidium variabile Prime. Prime, Smith. Misc. Coll. 145-1865. 7:66

Pisidium variabile Prime. Smith & Prime, An. Lyc. N. Y. 1870. 9:386. (Long Island)

Pisidium variabile Prime. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140

Pisidium variabile Prime. Beauchamp, Onondaga List. 1886. p.6

Pisidium variabile Prime. Walton, Rochester Acad. Sci. Proc. 1892. 2:18. (Monroe county)

Pisidium affine Sterki

Pisidium affine Stk. Sterki, Naut. 1901. 15:66

Pisidium sargenti Sterki

Pisidium sargenti Stk. Sterki, Naut. 1901. 15:67. (Mohawk river)

Pisidium strengii Sterki

Pisidium strengii Stk. Sterki, Naut. 1901. 15:126. (Little Lakes)

Pisidium streatori Sterki

Pisidium streatori Stk. Sterki, Naut. 1901. 14:100. (Canasaraga river)

Pisidium punctatum Sterki

Pisidium punctatum Stk. Sterki, Ms. Nov. 1901. (Herkimer county)

Pisidium pauperculum Sterki

Pisidium pauperculum Stk. Sterki, Ms. 1901

Pisidium walkeri Sterki

Pisidium walkeri Stk. Sterki, Ms. 1901. (Mohawk river)

Pisidium roperi Sterki

Pisidium roperi Stk. Sterki, Ms. 1901

Pisidium rotundatum Sterki

Pisidium rotundatum Stk. Sterki, Ms. 1901

Pisidium splendidulum Sterki

Pisidium splendidulum Stk. Sterki, Ms. 1901. (Long Island)

Pisidium scutellatum Sterki

Pisidium scutellatum Stk. Sterki, Ms. 1901. (Chautauqua lake)

Pisidium scutellatum Stk. Letson, N. Y. State Mus. Bul. 45. 1901. p.248. (Goat island. Post-Pliocene)

Pisidium medianum Sterki

Pisidium medianum Stk. Sterki, Ms. 1901. (Mohawk)

Pisidium ultramontanum Prime

Pisidium ultramontanum Prime. Letson, N. Y. State Mus. Bul. 45. 1901. p.248. (Goat island. Post-Pliocene)

Genus **CYCLAS** Bruguiere**Cyclas islandica** Linnaeus

Cyprina islandica Linn. DeKay, Nat. Hist. N. Y. 1843. p.215

Cyprina islandica Linn. Smith & Prime, An. Lyc. N. Y. 1870. 9:387. (Montauk point)

Family **CARDIIDAE**Genus **CARDIUM** Lamarck**Cardium (Cerastoderma) pinnulatum** Conrad

Cardium pinnatulum Conr. DeKay, Nat. Hist. N. Y. 1843.
p 205. (Long Island sound)

Cardium pinnulatum Conr. Smith & Prime, An. Lyc. N. Y.
1870. 9:387. (Long Island sound)

Cardium (Cerastoderma) pinnulatum Conr. Dall, Nat.
Mus. Proc. 1901. 23:386

Cardium (Cerastoderma) ciliatum Fabricius

Cardium islandicum Linn. DeKay, Nat. Hist. N. Y. 1843.
p.206

Cardium (Cerastoderma) ciliatum Fab. Dall, Nat. Mus.
Proc. 1901. 23:386

Cardium (Laevicardium) mortoni Conrad

Cardium mortoni Conr. DeKay, Nat. Hist. N. Y. 1843. p.207.
(Long Island sound)

Cardium mortoni Conr. Jay, Cat. 1852. p.45

Cardium mortoni Conr. Smith & Prime, An. Lyc. N. Y.
1870. 9:387

Cardium (Laevicardium) mortoni Conr. Dall, Nat. Mus.
Proc. 1901. 23:388

Genus **SERRIPES** Beck**Serripes gronlandicus** Gmelin

Cardium groenlandicum Gmel. DeKay, Nat. Hist. N. Y.
1843. p.206

Serripes gronlandicus Gmel. Dall, Nat. Mus. Proc. 1901.
23:388

Family **LUCINIDAE**Genus **PHACOIDES** Blainville**Phacoides filus** Stimpson

Lucina filosa St. Carpenter, Naut. 1902. 15:17

Genus **DIVARICELLA** von Martens**Divaricella quadrisulcata** d'Orbigny

Lucina strigilla St. Smith & Prime, An. Lyc. N. Y. 1870.
9:387. (Coney Island)

Divaricella quadrisulcata d'Orb. Dall, Nat. Mus. Proc.
1901. 23:815

Subgenus **LUCINELLA** Monterosato**Lucinella divaricata** Linnaeus

Lucina divaricata Linn. DeKay, Nat. Hist. N. Y. 1843.
p.214

Lucinella divaricata Linn. Dall, Nat. Mus. Proc. 1901.
23:815

Family **ERYCINIDAE**Genus **MONTACUTA** Turton**Montacuta bidentata** Montagu

Montacuta bidentata Mont. Verrill, Nat. Mus. Proc. 1898.
20:779. (Long Island sound)

Montacuta elevata Stimpson

Montacuta elevata St. Smith & Prime, An. Lyc. N. Y. 1870.
9:386. (Greenport)

Genus **KELLIA** Turton**Kellia planulata** Stimpson

Kellia planulata St. Stimpson, New Eng. Shells. 1851. p.17
Kellia planulata St. Smith & Prime, An. Lyc. N. Y. 1870.
9:386. (Montauk)

Family **SOLEMYIDAE**Genus **SOLEMYA** Lamarck**Solemya velum** Say

Solemya velum Say. DeKay, Nat. Hist. N. Y. 1843. p.245.
(Long Island sound)

Solemya velum Say. Jay, Cat. 1852. p.13

Solemya velum Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:389. (Greenport)

Family **CRASSATELLIDAE**Genus **ERYPHYLA** Gabb**Eryphyla lunulata** Conrad

Astarte lunulata Conr. Smith & Prime, An. Lyc. N. Y.
1870. 9:387

Family **ASTARTIDAE**Genus **ASTARTE** Sowerby**Astarte castanea** Say

Astarte castanea Say. DeKay, Nat. Hist. N. Y. 1843. p.220.
(Long Island sound)

Astarte castanea Say. Jay, Cat. 1852. p.34

Astarte castanea Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:387. (Sandy Hook)

Astarte sulcata Montague

Astarte sulcata Mont. DeKay, Nat. Hist. N. Y. 1843. p.221.
(Long Island sound)

Astarte sulcata Flem. Smith & Prime, An. Lyc. N. Y.
1870. 9:387

Subfamily **CARDITINAE**Genus **VENERICARDIA** Lamarck**Venericardia borealis** Conrad

Cardita borealis Conr. DeKay, Nat. Hist. N. Y. 1843. p.204.
(Long Island sound)

Cardita borealis Conr. Smith & Prime, An. Lyc. N. Y. 1870.
9:387. (Gardiner's bay)

Order **ASIPHONIDA**Suborder **HOMOMYARIA**Family **UNIONIDAE**Genus **TRUNCILLA** Rafinesque**Truncilla triquetra** Rafinesque

Unio triangularis Barnes. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.141

Truncilla triquetra Raf. Simpson, Nat. Mus. Proc. 1900.
22:517

Genus **MICROMYA** Agassiz**Micromya fabalis** Lea

Micromya fabalis Lea. Simpson, Nat. Mus. Proc. 1900. 22:525.

Genus **LAMPSILIS** Rafinesque**Lampsilis ventricosus** Barnes

Unio ventricosus Barnes. DeKay, Nat. Hist. N. Y. 1843.
p.190. (Lake Champlain)

Unio occidens Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141

Unio ventricosus Barnes. Beauchamp, Onondaga List. 1886.
p.7. (Seneca river)

Unio occidens Lea. Walton, Rochester Acad. Sci. Proc. 1892.
2:16. (Erie canal)

Lampsilis ventricosus Barnes. Simpson, Nat. Mus. Proc.
1900. 22:526

Lampsilis cariosus Say

Unio cariosus Say. DeKay, Nat. Hist. N. Y. 1843. p.193.
(Hudson river)

Unio cariosus Say. Aldrich, Troy List. 1867. p.1. (Mohawk
and Hudson rivers, Erie canal)

Unio cariosus Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.140

Unio cariosus Say. Beauchamp, Onondaga List. 1886. p.6.
(Oswego river)

Unio cariosus Say. Walton, Rochester Acad. Sci. Proc. 1892.
2:15. (Erie canal)

Lampsilis cariosus Say. Simpson, Nat. Mus. Proc. 1900.
22:528

***Lampsilis ochraceus* Say**

Unio ochraceus Say. DeKay, Nat. Hist. N. Y. 1843. p.193.
(Mohawk river)

Unio ochraceus Say. Aldrich, Troy List. 1867. p.1. (Mohawk
river)

Unio ochraceus Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.141

Lampsilis ochraceus Say. Simpson, Nat. Mus. Proc. 1900.
22:530

***Lampsilis multiradiatus* Lea**

Unio multiradiatus Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.141

Lampsilis multiradiatus Lea. Simpson, Nat. Mus. Proc.
1900. 22:532

***Lampsilis luteolus* Lamarck**

Unio luteolus Lam. DeKay, Nat. Hist. N. Y. 1843. p.190.
(Little Falls, Lake Champlain, Mohawk river, Orleans county)

Lampsilis siliquoides Barnes. Stimpson, New Eng. Shells.
1851. p.14. (Lake Champlain)

Unio inflatus Barnes. Jay, Cat. 1852. p.61. (Lake Erie)

Unio luteolus Lewis. Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141

Unio luteolus Lam. Beauchamp, Onondaga List. 1886. p.7

Unio luteolus Lam. Walton, Rochester Acad. Sci. Proc. 1892.
2:16. (Genesee river)

Lampsilis luteolus Lam. Simpson, Nat. Mus. Proc. 1900.
22:534

***Lampsilis luteolus* var. *rosaceus* DeKay**

Unio rosaceus DeK. DeKay, Nat. Hist. N. Y. 1843. p.192.
(Seneca lake)

Unio rosaceus DeK. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.141

Unio rosaceus DeK. Beauchamp, Onondaga List. 1886. p.7

Unio rosaceus DeK. Walton, Rochester Acad. Sci. Proc. 1892.
2:16. (Lake Ontario)

Lampsilis luteolus var. *rosaceus* DeK. Simpson, Nat.
Mus. Proc. 1900. 22:535

***Lampsilis borealis* Gray**

Lampsilis borealis Gray. Simpson, Nat. Mus. Proc. 1900.
22:535

***Lampsilis radiatus* Gmelin**

Unio boydianus Lea. Lea, Obs. Genus Unio. 1842. 3:54.
(Orleans county)

Unio radiatus Gml. DeKay, Nat. Hist. N. Y. 1843. p.189

Unio boydianus Lea. DeKay, Nat. Hist. N. Y. 1843. p.189.
(Orleans county)

Unio boydianus Lea. Jay, Cat. 1852. p.55

Unio radiatus Lam. Aldrich, Troy List. 1867. p.2

Unio radiatus Lam. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141

Unio boydianus Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140

Unio radiatus Lam. Beauchamp, Onondaga List. 1886. p.7

Lampsilis radiatus Gmel. Simpson, Nat. Mus. Proc. 1900.
22:535

***Lampsilis ligamentinus* Lamarck**

Unio ligamentinus Lam. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.141

Unio ligamentinus Lam. Beauchamp, Onondaga List. 1886.
p.7. (Cross lake)

Lampsilis ligamentinus Lam. Simpson, Nat. Mus. Proc.
1900. 22:539

***Lampsilis anodontoides* Lea**

Unio anodontoides Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.140

Lampsilis anodontoides Lea. Simpson, Nat. Mus. Proc. 1900.
22:543

***Lampsilis rectus* Lamarck**

Unio rectus Lam. DeKay, Nat. Hist. N. Y. 1843. p.195. (Lake
Champlain)

Unio rectus Lam. Jay, Cat. 1852. p.65. (Lake Erie)

Unio rectus Lam. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141.
(Lake Champlain)

Unio rectus Lam. Beauchamp, Onondaga List. 1886. p.7

Unio rectus Lam. Walton, Rochester Acad. Sci. Proc. 1892. 2:16
(Erie canal)

Lampsilis rectus Lam. Simpson, Nat. Mus. Proc. 1900. 22:544.

Lampsilis rectus Lam. Letson, N. Y. State Mus. Bul. 45. 1901.
p.248. (Goat island. Post-Pliocene)

***Lampsilis nasutus* Say**

Unio nasutus Say. DeKay, Nat. Hist. N. Y. 1843. p.191. (Lake Ontario)

Unio nasutus Say. Jay, Cat. 1852. p.62

Unio nasutus Say. Aldrich, Troy List. 1867. p.1. (Mohawk basin)

Unio nasutus Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:15.
(Erie canal)

Lampsilis nasutus Say. Simpson, Nat. Mus. Proc. 1900. 22:545.

***Lampsilis subrostratus* Say**

Unio subrostratus Say. Jay, Cat. 1852. p.66

Lampsilis subrostratus Say. Simpson, Nat. Mus. Proc. 1900.
22:546

***Lampsilis iris* Lea**

Unio novi-eboraci Lea. Lea, Obs. Genus Unio. 1838. 2:104.
(Orleans county)

Unio novi-eboraci Lea. DeKay, Nat. Hist. N. Y. 1843. p.194.
(Orleans county)

Unio novi-eboraci Lea. Jay, Cat. 1852. p.62

Unio novi-eboraci Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.141

Unio iris Lea. Beauchamp, Onondaga List. 1886. p.7. (Erie canal)

Unio novi-eboraci Lea. Beauchamp, Onondaga List. 1886. p.7

Unio novi-eboraci Lea. Walton, Rochester Acad. Sci. Proc. 2.
1892. p.15. (Erie canal)

Unio iris Lea. Walton, Rochester Acad. Sci. Proc. 1892. 2:15.
(Erie canal)

Lampsilis iris Lea. Simpson, Nat. Mus. Proc. 1900. 22:552

***Lampsilis ellipsiformis* Conrad**

Unio spatulatus Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p.141

Lampsilis ellipsiformis Conr. Simpson, Nat. Mus. Proc.
1900. 22:557

Lampsilis ellipsiformis Conr. Letson, N. Y. State Mus.
Bul. 45. 1901. p.249. (Prospect park. Post-Pliocene)

Lampsilis parvus Barnes

- Unio parvus* Barnes. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141
Unio parvus Barnes. Beauchamp, Onondaga List. 1886. p.7.
 (Erie canal)
Lampsilis parvus Barnes. Simpson, Nat. Mus. Proc. 1900.
 22:564

Lampsilis alatus Say

- Unio alatus* Say. DeKay, Nat. Hist. N. Y. 1843. p.195. (Lakes
 Champlain and Erie)
Metaptera alatus Say. Stimpson, New Eng. Shells. 1851. p.14.
 (Lake Champlain)
Unio alatus Say. Say, Conch. U. S. ed. by Binney. 1858. p.52.
 (Lake Erie)
Unio alatus Say. Aldrich, Troy List. 1867. p.1. (Northern canal)
Unio alatus Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.140
Unio alatus Say. Beauchamp, Onondaga List. 1886. p.7
Unio alatus Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:15.
 (Erie canal)
Lampsilis alatus Say. Simpson, Nat. Mus. Proc. 22. 1900.
 p.567

Lampsilis gracilis Barnes

- Metaptera gracilis* Barnes. Stimpson, New Eng. Shells. 1851.
 p.14. (Lake Champlain)
Unio gracilis Barnes. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141
Unio gracilis Barnes. Beauchamp, Onondaga List. 1886. p.7
Unio gracilis Barnes. Walton, Rochester Acad. Sci. Proc. 1892.
 2:15. (Erie canal)
Lampsilis gracilis Barnes. Simpson, Nat. Mus. Proc. 1900.
 22:573

Lampsilis laevissimus Lea

- Lampsilis laevissimus* Lea. Simpson, Nat. Mus. Proc. 1900.
 22:574. (Western New York)

Lampsilis leptodon Rafinesque

- Lampsilis leptodon* Raf. Simpson, Nat. Mus. Proc. 1900.
 22:575. (Buffalo)

Genus **OBOVARIA** Rafinesque**Obovaria leibii** Lea

- Unio leibii* Lea. Beauchamp, Onondaga List. 1886. p.7. (Onon-
 daga lake)
Obovaria leibii Lea. Simpson, Nat. Mus. Proc. 1900. 22:601.
 (Lake Erie)

Obovaria ellipsis Lea

Unio ellipsis Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141

Obovaria ellipsis Lea. Simpson, Nat. Mus. Proc. 1900. 22:602

Genus **PLAGIOLA** Rafinesque**Plagiola elegans** Lea

Unio elegans Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141

Plagiola elegans Lea. Simpson, Nat. Mus. Proc. 1900. 22:604

Genus **PTYCHOBANCHUS** Simpson**Ptychobanchus phaseolus** Hildrith

Unio phaseolus Hild. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141

Ptychobanchus phaseolus Hild. Simpson, Nat. Mus. Proc. 1900. 22:612

Genus **STROPHITUS** Rafinesque**Strophitus edentulus** Say

Anodon edentula Say. DeKay, Nat. Hist. N. Y. 1843. p.201
(Lake Onondaga)

Anodon unadilla DeK. DeKay, Nat. Hist. N. Y. 1843. p.199.
(Otsego river)

Anodonta edentula Say. Aldrich, Troy List. 1867. p.2.
(Northern canal)

Anodonta edentula Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.142. (Genesee river)

Anodonta edentula Say. Beauchamp, Onondaga List. 1886. p.8.

Anodonta edentula Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:17. (Long pond)

Strophitus edentula Say. Simpson, Nat. Mus. Proc. 1900. 22:616

Strophitus edentulus var. **pavonius** Lea

Anodon pavonia Lea. DeKay, Nat. Hist. N. Y. 1843. p.203.
(Onondaga lake)

Anodonta pavonia Lea. Beauchamp, Onondaga List. 1886. p.8. (Erie canal)

Strophitus edentulus var. *pavonius* Lea. Simpson, Nat. Mus. Proc. 1900. 22:617

Strophitus undulatus Say

Anodonta undulata Say. Jay, Cat. 1852. p.73

Anodonta undulata Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.142

Anodonta undulata Say. Beauchamp, Onondaga List. 1886. p.8

Anodonta undulata Say. Walton, Rochester Acad. Sci. Proc.
1892. 2:18

Strophitus undulatus Say. Simpson, Nat. Mus. Proc. 1900.
22:618

Genus *ANODONTA* Lamarck

Anodonta cataracta Say

Anodon fluviatilis Dillw. DeKay, Nat. Hist. N. Y. 1843. p.203

Anodonta cataracta Say. Jay, Cat. 1852. p.71

Anodonta fluviatilis Dillw. Aldrich, Troy List. 1867. p.2

Anodonta fluviatilis Dillw. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.142

Anodonta fluviatilis Dillw. Beauchamp, Onondaga List.
1886. p.8

Anodonta williamsii Lea. Beauchamp, Onondaga List. 1886.
p.8. (Seneca river)

Anodonta fluviatilis Dillw. Walton, Rochester Acad. Sci.
Proc. 1892. 2:17. (Genesee river)

Anodonta cataracta Say. Simpson, Nat. Mus. Proc. 1900.
22:631

Anodonta marginata Say

Anodonta marginata Say. Jay, Cat. 1852. p.72

Anodonta lacustris Lea. Lea, Obs. Genus Unio. 1860. 8:45.
(Little and Crooked lakes)

Anodonta fragilis Lam. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.142

Anodonta lacustris Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.142

Anodonta fragilis Lam. Beauchamp, Onondaga List. 1886. p.8

Anodonta lacustris Lea. Beauchamp, Onondaga List. 1886. p.8

Anodonta fragilis Lam. Walton, Rochester Acad. Sci. Proc.
1892. 2:17. (Pittsford)

Anodonta marginata Say. Simpson, Nat. Mus. Proc. 1900.
22:632

Anodonta implicata Say

Anodonta implicata Say. DeKay, Nat. Hist. N. Y. 1843. p.202

Anodonta excurvata DeK. DeKay, Nat. Hist. N. Y. 1843.
p.202. (Albany county)

Anodonta implicata Say. Aldrich, Troy List. 1867. p.2

Anodonta implicata Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
1874. p.142

Anodonta implicata Say. Walton, Rochester Acad. Sci. Proc. 1892. 2:17. (Charlotte)

Anodonta excurvata DeK. Walton, Rochester Acad. Sci. Proc. 1892. 2:17. (Pittsford)

Anodonta implicata Say. Simpson, Nat. Mus. Proc. 1900. 22:633

***Anodonta imbecillis* Say**

Anodonta imbecillis Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.142

Anodonta imbecillis Say. Beauchamp, Onondaga List. 1886. p.8

Anodonta imbecillis Say. Walton, Rochester Acad. Sci. 1892. 2:17. (Irondequoit)

Anodonta imbecillis Say. Simpson, Nat. Mus. Proc. 1900. 22:635

***Anodonta grandis* Say**

Anodonta lewisii Lea. Lea, Obs. Genus Unio. 1860. 8:44. (Erie canal and Genesee river)

Anodonta lewisii Lea. Aldrich, Troy List. 1867. p.2. (Mohawk basin)

Anodonta lewisii Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.142

Anodonta lewisii Lea. Beauchamp, Onondaga List. 1886. p.8

Anodonta salmonia Lea. Beauchamp, Onondaga List. 1886. p.8

Anodonta lewisii Lea. Walton, Rochester Acad. Sci. Proc. 1892. 2:17

Anodonta salmonia Lea. Walton, Rochester Acad. Sci. Proc. 1892. 2:17

Anodonta grandis Say. Simpson, Nat. Mus. Proc. 1900. 22:641

***Anodonta grandis* var. *footiana* Lea**

Anodonta footiana Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.142

Anodonta footiana Lea. Beauchamp, Onondaga List. 1886. p.8

Anodonta grandis var. *footiana* Lea. Simpson, Nat. Mus. Proc. 1900. 22:642

***Anodonta grandis* var. *gigantea* Lea**

Anodon plana Lea. DeKay, Nat. Hist. N. Y. 1843. p.201. (Lake Ontario)

Anodonta decora Lea. Beauchamp, Onondaga List. 1886. p.8

Anodonta grandis var. *gigantea* Lea. Simpson, Nat. Mus. Proc. 1900. 22:643

Anodonta grandis var. **benedictensis** Lea

Symphynota benedictensis Lea. Lea, Obs. Genus Unio. 1834. 1:216

Anodon benedictensis Lea. DeKay, Nat. Hist. N. Y. 1843. p.204. (Lakes Onondaga and Champlain)

Alasmodonta benedictensis Lea. Stimpson, New Eng. Shells. 1851. p.15. (Lake Champlain)

Anodonta benedictensis Lea. Jay, Cat. 1852. p 71. (Lake Champlain)

Anodonta benedictensis Lea. Aldrich, Troy List. 1867. p.2. (Mohawk and Hudson rivers)

Anodonta benedictii Lea Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.142. (Lake Champlain)

Anodonta benedictii Lea. Beauchamp, Onondaga List. 1886. p.8

Anodonta benedictii Lea. Walton, Rochester Acad. Sci. Proc. 1892. 2:17. (Erie canal)

Anodonta grandis var. *benedictensis* Lea. Simpson, Nat. Mus. Proc. 1900. 22:644

Anodonta kennicottii Lea

Anodonta simpsoniana Lea. Beauchamp, Onondaga List. 1886. p.8. (Beaver lake)

Anodonta kennicottii Lea. Simpson, Nat. Mus. Proc. 1900. 22:647

Anodonta pepiniana Lea

Anodonta pepiniana Lea. Beauchamp, Onondaga List. 1886. p.8

Anodonta pepiniana Lea. Simpson, Nat. Mus. Proc. 1900. 22:647

Genus **ANODONTOIDES** Simpson**Anodontoides ferussacianus** Lea

Anodon ferussaciana Lea. DeKay, Nat. Hist. N. Y. 1843. p.200. (Erie canal)

Anodonta ferussaciana Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.142. (Genesee river)

Anodonta ferussaciana Lea. Beauchamp, Onondaga List. 1886. p.8. (Erie canal)

Anodonta ferussaciana Lea. Walton, Rochester Acad. Sci. Proc. 1892. 2:17. (Erie canal)

Anodonta ferruginea Lea. Walton, Rochester Acad. Sci. Proc. 1892. 2:17. (Genesee river)

Anodontoides ferussacianus Lea. Simpson, Nat. Mus. Proc. 1900. 22:659

***Anodontoides ferussacianus* var. *subcylindracea* Lea**

Anodonta subcylindracea Lea. Lea, Obs. Genus Unio. 1838. 2:106. (Orleans county)

Anodon subcylindracea Lea. DeKay, Nat. Hist. N. Y. 1843. p.200. (Oswego river)

Anodonta subcylindracea Lea. Jay, Cat. 1852. p.73. (Orleans county)

Anodonta subcylindracea Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.142

Anodonta subcylindracea Lea. Beauchamp, Onondaga List. 1886. p.8

Anodonta subcylindracea Lea. Walton, Rochester Acad. Sci. Proc. 2. 1892. p.17. (Irondequoit)

Anodontoides ferussacianus var. *subcylindraceus* Lea. Simpson, Nat. Mus. Proc. 1900. 22:660

***Anodontoides ferussacianus* var. *modestus* Lea**

Anodontoides ferussacianus var. *modestus* Lea. Simpson, Nat. Mus. Proc. 1900. 22:660

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***Symphynota compressa* Lea**

Symphynota compressa Lea. Lea, Obs. Genus Unio. 1834. 1:64. (Near Albany)

Unio compressus Lea. DeKay, Nat. Hist. N. Y. 1843. p.191. (Orleans and Jefferson counties)

Unio compressus Lea. Jay, Cat. 1852. p.57

Unio pressus Lea. Aldrich, Troy List. 1867. p.2. (Hoosic river)

Unio pressus Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141. (Owasco lake)

Unio pressus Lea. Beauchamp, Onondaga List. 1886. p.7. (Seneca river)

Unio pressus Lea. Walton, Rochester Acad. Sci. Proc. 1892. 2:16. (Genesee river)

Symphynota compressa Lea. Simpson, Nat. Mus. Proc. 1900. 22:662

Symphynota compressa var. **plebius** Adams

Symphynota compressa var. *plebius* Ads. Simpson, Nat. Mus. Proc. 1900. 22:663. (Hudson river)

Symphynota viridis Conrad

Unio tappanianus Lea. DeKay, Nat. Hist. N. Y. 1843. p.194. (Northern canal)

Unio tappanianus Lea. Aldrich, Troy List. 1867. p.1 (Northern canal)

Unio tappanianus Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141

Unio tappanianus Lea. Beauchamp, Onondaga List. 1886. p.7. (Erie canal and Seneca river)

Unio tappanianus Lea. Walton, Rochester Acad. Sci. Proc. 1892. 2:16. (Genesee river)

Symphynota viridis Conr. Simpson, Nat. Mus. Proc. 1900. 22:663

Symphynota costata Rafinesque

Alasmodon rugosa Barnes. DeKay, Nat. Hist. N. Y. 1843. p.196

Margaritana rugosa Lea. Aldrich, Troy List. 1867. p.2. (Mohawk basin)

Margaritana rugosa Barnes. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141

Margaritana rugosa Barnes. Beauchamp, Onondaga List. 1886. p.7. (Onondaga lake)

Margaritana rugosa Barnes. Walton, Rochester Acad. Sci. Proc. 1892. 2:16. (Genesee river)

Symphynota costata Raf. Simpson, Nat. Mus. Proc. 1900. 22:665

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Symphynota complanata Barnes. Simpson, Nat. Mus. Proc. 1900. 22:665

Genus **ALASMIDONTA** Say**Alasmidonta undulata** Say

Alasmodon undulata Say. DeKay, Nat. Hist. N. Y. p.198. (Albany county)

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Alasmidonta undulata Say. Simpson, Nat. Mus. Proc. 1900.
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Alasmidonta calceola Lea. Simpson, Nat. Mus. Proc. 1900.
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Alasmidonta calceola Lea. Letson, N. Y. State Mus. Bul. 45.
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Alasmodon corrugata DeKay. DeKay, Nat. Hist. N. Y.
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Margaritana marginata Say. Jay, Cat. 1852. p.69

Margaritana marginata Say. Aldrich, Troy List. 1867. p.2.
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Margaritana marginata Say. Lewis, Buf. Soc. Nat. Sci. Bul. 2.
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Margaritana marginata Say. Beauchamp, Onondaga List.
1886. p.7

Margaritana marginata Say. Walton, Rochester Acad. Sci.
Proc. 1892. 2:17 (Erie canal)

Alasmidonta marginata Say. Simpson, Nat Mus. Proc. 1900.
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***Alasmidonta truncata* B. H. Wright**

Alasmidonta truncata Wright. Simpson, Nat. Mus. Proc. 1900.
22:671

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***Hemilastena ambigua* Say**

Margaritana hildrethiana Lea. Lewis, Buf. Soc. Nat. Sci.
Bul. 2. 1874. p.141. (Buffalo creek)

Hemilastena ambigua Say. Simpson, Nat. Mus. Proc. 1900.
22:673

Genus **MARGARITANA** Schumacher**Margaritana margaritifera** Linnaeus

- Alasmodon arcuata* Barnes. DeKay, Nat. Hist. N. Y. 1843. p.197. (Rockland and Oneida counties)
- Margaritana margaritifera* Linn. Jay, Cat. 1852. p.69. (Lake Erie)
- Margaritana margaritifera* Linn. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141
- Margaritana margaritifera* Linn. Beauchamp, Onondaga List. 1886. p.8. (Oneida lake)
- Margaritana margaritifera* Linn. Simpson, Nat. Mus. Proc. 1900. 22:674

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- Unio ovalis* Flem. Jay, Cat. 1852. p.63. (Lake Champlain)
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- Unio pictorum* Linn. Simpson, Nat. Mus. Proc. 1900. 22:680

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- Unio complanatus* Sol. DeKay, Nat. Hist. N. Y. 1843. p.188. (Little Falls, Oak Orchard)
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- Unio complanatus* Sol. Beauchamp, Onondaga List. 1886. p.7

Unio complanatus Sol. Walton, Rochester Acad. Sci. Proc. 1892. 2:15. (Genesee river)

Unio complanatus Sol. Simpson, Nat. Mus. Proc. 1900. 2:720

Genus *QUADRULA* Rafinesque

Quadrula plicata hippopaea Lea

Unio hippopaeus Lea. Lea, Obs. Genus Unio. 1841. 4:41. (Lake Erie)

Unio hippopaeus Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141. (Buffalo river)

Quadrula plicata hippopaea Lea. Simpson, Nat. Mus. Proc. 1900. 22:767. (Lake Erie)

Quadrula undulata Barnes

Unio undulatus Barnes. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141

Unio undulatus Barnes. Beauchamp, Onondaga List. 1886. p.7. (Erie canal)

Unio undulatus Barnes. Walton, Rochester Acad. Sci. Proc. 1892. 2:16. (Erie canal)

Quadrula undulata Barnes. Simpson, Nat. Mus. Proc. 1900. 22:769

Quadrula lachrymosa Lea

Quadrula lachrymosa Lea. Simpson, Nat. Mus. Proc. 1900. 22:776

Quadrula pustulosa Lea

Unio pustulatus Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141

Quadrula pustulosa Lea. Simpson, Nat. Mus. Proc. 1900. 22:779

Quadrula rubiginosa Lea

Unio rubiginosus Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141

Unio rubiginosus Lea. Beauchamp, Onondaga List. 1886. p.7. (Erie canal)

Unio rubiginosus Lea. Walton, Rochester Acad. Sci. Proc. 1892. 2:16. (Genesee river)

Quadrula rubiginosa Lea. Simpson, Nat. Mus. Proc. 1900. 22:786

Quadrula trigona Lea

Unio trigonus Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874. p.141

Quadrula trigona Lea. Simpson, Nat. Mus. Proc. 1900. 22:787

Quadrula coccinea Conrad

Unio coccineus Lea. Lewis, Buf. Soc. Nat. Sci. Bul. 2. 1874.
p. 141

Quadrula coccinea Conr. Simpson, Nat. Mus. Proc. 1900.
22:788

Quadrula coccinea Conr. Letson, N. Y. State Mus. Bul. 45.
1901. p. 252. (Goat island. Post-Pliocene)

Quadrula coccinea paupercula Simpson

Quadrula coccinea paupercula Simp. Simpson, Nat. Mus.
Proc. 1900. 22:789

Quadrula tuberculata Rafinesque

Unio verrucosus Barnes. Jay, Cat. 1852. p. 68. (Lake Erie)

Quadrula tuberculata Raf. Simpson, Nat. Mus. Proc. 1900.
22:795

Quadrula solida Lea

Quadrula solida Lea. Letson, N. Y. State Mus. Bul. 45. 1901.
p. 251. (Goat island. Post-Pliocene)

Family NUCULIDAE

Genus NUCULA Lamarck

Nucula proxima Say

Nucula proxima Say. DeKay, Nat. Hist. N. Y. 1843. p. 179

Nucula proxima Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:385

Nucula radiata DeKay

Nucula radiata DeK. DeKay, Nat. Hist. N. Y. 1843. p. 179.
(Williamsburg, East river)

Nucula radiata DeK. Smith & Prime, An. Lyc. N. Y. 1870.
9:385. (East river)

Genus YOLDIA Möller

Yoldia limatula Say

Leda limatula St. Smith & Prime, An. Lyc. N. Y. 1870. 9:385.
(New York bay)

Yoldia limatula Say. Verrill & Bush, Am. Jour. Sci. 1897.
ser. 4. 3:55

Yoldia gouldi DeKay

Nucula gouldi DeK. DeKay, Nat. Hist. N. Y. 1843. p. 180. (Long
Island sound)

Leda gouldi DeK. Smith & Prime, An. Lyc. N. Y. 1870. 9:385

Yoldia gouldi DeK. Verrill, U. S. Fish Com. Rep't. 1871-72.
p. 690

Yoldia sapotilla Gould

Leda sapotilla St. Smith & Prime, An. Lyc. N. Y. 1870.
9:385. (Greenport)

Yoldia sapotilla Gould. Verrill & Bush, Am. Jour. Sci. 1897.
ser. 4. 3:55

Nucula sapotilla Gould. Carpenter, Naut. 1901. 15:92.
(Long Island sound)

Genus MEGAYOLDIA

Megayoldia thraciaeformis Storer

Nucula thraciaeformis Str. DeKay, Nat. Hist. N. Y. 1843.
p.178

Leda thraciaeformis St. Smith & Prime, An. Lyc. N. Y.
1870. 9:385. (Fire Island light)

Magayoldia thraciaeformis Str. Verrill & Bush, Am. Jour.
Sci. 1897. ser. 4. 3:55

Family ARCIDAE

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Arca pexata Say

Arca pexata Say. DeKay, Nat. Hist. N. Y. 1843. p.176

Arca pexata Say. Jay, Cat. 1852. p.50

Arca pexata Say. Smith & Prime, An. Lyc. N. Y. 1870. 9:385

Arca pexata Say. Carpenter, Naut. 1901. 15:93. (Long Island
sound)

Arca ponderosa Say

Arca ponderosa Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:385. (Fire Island light)

Arca ponderosa Say. Verrill, Ct. Acad. Arts & Sci. 1882. 5:573

Arca transversa Say

Arca transversa Say. DeKay, Nat. Hist. N. Y. 1843. p.177

Arca transversa Say. Jay, Cat. 1852. p.51.

Arca transversa Say. Smith & Prime, An. Lyc. N. Y.
1870. 9:384

Family MYTILIDAE

Genus MYTILUS Linnaeus

Mytilus edulis Linnaeus

Mytilus borealis Lam. DeKay, Nat. Hist. N. Y. 1843. p.182.
(Long Island sound)

Mytilus notatus DeK. DeKay, Nat. Hist. N. Y. 1843. p.182

Mytilus pellucidus DeK. DeKay, Nat. Hist. N. Y. 1843. p.183

Mytilus pellucidus Maton. Jay, Cat. 1852. p.77

Mytilus edulis Linn. Smith & Prime, An. Lyc. N. Y. 1870. 9:386

***Mytilus corrugatus* Stimpson**

Mytilus corrugatus St. Smith & Prime, An. Lyc. N. Y. 1870.
9:385. (Gardiners bay)

***Mytilus hamatus* Say**

Mytilus hamatus Say. Smith & Prime, An. Lyc. N. Y. 1870.
9:386. (New York harbor)

Genus **MODIOLUS** Lamarck

***Modiolus modiolus* Linnaeus**

Modiola modiolus Linn. DeKay, Nat. Hist. N. Y. 1843. p.185

Mytilus modiolus Linn. Smith & Prime, An. Lyc. N. Y. 1870.
9:386. (Greenport)

***Modiolus demissus plicatulus* Lamarck**

Modiola plicatula Lam. DeKay, Nat. Hist. N. Y. 1843. p.184

Modiola plicatula Lam. Jay, Cat. 1852. p.77

Mytilus plicatulus Desh. Smith & Prime, An. Lyc. N. Y.
1870. 9:386

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Genus **CRENELLA** Brown

***Crenella grandula* Totten**

Crenella decussata Mont. DeKay, Nat. Hist. N. Y. 1843.
p.186

Mytilus decussatus Mont. Smith & Prime, An. Lyc. N. Y.
1870. 9:385. (Gardiners bay)

Crenella grandula Tott. Carpenter, Naut. 1901. 15:106.
(Long Island sound)

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Genus **PECTEN** Müller

***Pecten gibbus irradians* Lamarck**

Pecten concentricus Say. DeKay, Nat. Hist. N. Y. 1843.
p.172

Pecten concentricus Say. Jay, Cat. 1852. p.84

Pecten irradians Lam. Jay, Cat. 1852. p.85

Pecten turgidus Sowb. Jay. Cat. 1852. p.87

Pecten irradians Lam. Smith & Prime, An. Lyc. N. Y. 1870.
9:384. (Long Island sound)

Pecten tenuicostatus Mighels and Adams

Pecten magellanicus Gmel. DeKay, Nat. Hist. N. Y. 1843. p.173. (Sandy Hook)

Pecten magellanicus Gmel. Smith & Prime, An. Lyc. N. Y. 1870. 9:384. (Long Island sound)

Pecten tenuicostatus M. & A. Carpenter, Naut. 1901. 15:114. (Long Island sound)

Pecten islandicus Müller

Pecten islandicus Müll. DeKay, Nat. Hist. N. Y. 1843. p.173

Family **ANOMIIDAE**Genus **ANOMIA** Linnaeus**Anomia aculeata** Gmelin

Anomia aculeata Müll. Jay, Cat. 1852. p.92

Anomia ephippium aculeata Gmel. Smith & Prime, An. Lyc. N. Y. 1870. 9:384.

Anomia aculeata Gmel. Carpenter, Naut. 1901. 15:130. (Long Island sound)

Anomia glabra Verrill

Anomia ephippium Linn. DeKay, Nat. Hist. N. Y. 1843. p.168

Anomia ephippium Linn. Jay, Cat. 1852. p.92

Anomia patellaris Lam. Jay, Cat. 1852. p.92

Anomia ephippium Linn. Smith & Prime, An. Lyc. N. Y. 1870. 9:384

Anomia glabra Verr. Carpenter, Naut. 1901. 15:130

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Ostrea borealis Lam. DeKay, Nat. Hist. N. Y. 1843. p.169

Ostrea borealis Lam. Jay, Cat. 1852. p.89

Ostrea canadensis Burg. Jay, Cat. 1852. p.89

Ostrea borealis Lam. Smith & Prime, An. Lyc. N. Y. 1870. 9:384

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 costulata, 12⁶.
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 grandis, 12⁹.
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ferrea, 29³.

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limpida, 27⁵.

Vitrinidae, 27⁴.

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contectoides, 23⁵.

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palliata, 38¹.

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arboreus, 30⁴.

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fuliginosus, 28¹.

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indentatus, 29⁶.

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intertextus, 31⁶.

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limatulus, 30⁶.

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minusculus, 30⁸.

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multidentatus, 32⁶.

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suppressa, 32¹.

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viridulus, 28⁹.

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Zonitoides, 29⁷.

arboreus, 30¹.

exiguus, 30⁹.

limatulus, 30⁵.

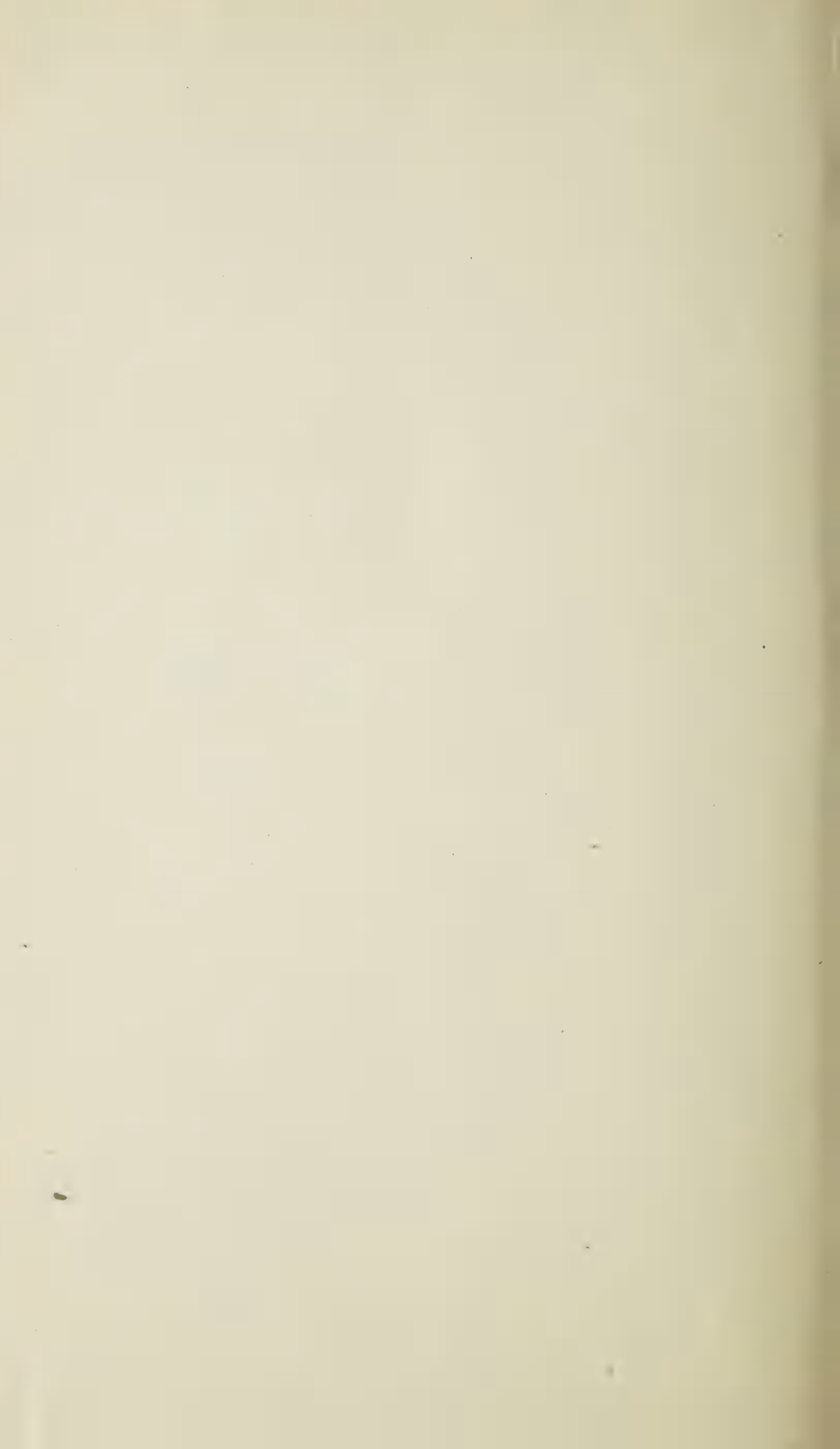
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New York State Education Department

New York State Museum

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These reports are made up of the reports of the director, geologist, paleontologist, botanist and entomologist, and museum bulletins and memoirs, issued as advance sections of the reports.

Geologist's annual reports 1881-date. Rep'ts 1, 3-13, 17-date, O; 2, 14-16, Q.

The annual reports of the early natural history survey, 1837-41, are out of print.

Reports 1-4, 1881-84, were published only in separate form. Of the 5th report 4 pages were reprinted in the 30th museum report, and a supplement to the 6th report was included in the 40th museum report. The 7th and subsequent reports are included in the 41st and following museum reports, except that certain lithographic plates in the 11th report (1891) and 13th (1893) are omitted from the 45th and 47th museum reports.

Separate volumes of the following only are available.

<i>Report</i>	<i>Price</i>	<i>Report</i>	<i>Price</i>	<i>Report</i>	<i>Price</i>
12 (1892)	\$.50	17	\$.75	21	\$.40
14	.75	18	.75	22	.40
15, 2v.	2	19	.40	23	<i>In press</i>
16	1	20	.50		

In 1898 the paleontologic work of the State was made distinct from the geologic and was reported separately from 1899-1903. The two departments were reunited in 1904.

Paleontologist's annual reports 1899-1903.

See fourth note under Geologist's annual reports.

Bound also with museum reports of which they form a part. Reports for 1899 and 1900 may be had for 20c each. Those for 1901-3 were issued as bulletins. In 1904 combined with geologist's report.

Entomologist's annual reports on the injurious and other insects of the State of New York 1882-date.

Reports 3-19 bound also with museum reports 40-46, 48-57 of which they form a part. Since 1898 these reports have been issued as bulletins. Reports 3-4 are out of print, other reports with prices are:

<i>Report</i>	<i>Price</i>	<i>Report</i>	<i>Price</i>	<i>Report</i>	<i>Price</i>
1	\$.50	9	\$.25	15 (En 9)	\$.15
2	.30	10	.35	16 (" 10)	.25
5	.25	11	.25	17 (" 14)	.30
6	.15	12	.25	18 (" 17)	.20
7	.20	13	.10	19 (" 21)	.15
8	.25	14 (En 5)	.20	20	<i>In press</i>

Reports 2, 8-12 may also be obtained bound separately in cloth at 25c in addition to the price given above.

Botanist's annual reports 1867-date.

Bound also with museum reports 21-date of which they form a part; the first botanist's report appeared in the 21st museum report and is numbered 21. Reports 21-24, 29, 31-41 were not published separately.

Separate reports 25-28, 30, 42-50 and 52 (Botany 3) are out of print. Report 51 may be had for 40c; 53 for 20c; 54 for 50c. Since the 55th these reports have been issued as bulletins.

Descriptions and illustrations of edible, poisonous and unwholesome fungi of New York have been published in volumes 1 and 3 of the 48th museum report and in volume 1 of the 49th, 51st, 52d, 54th and 55th reports. The descriptions and illustrations of edible and unwholesome species contained in the 49th, 51st and 52d reports have been revised and rearranged, and, combined with others more recently prepared, constitute Museum memoir 4.

MUSEUM PUBLICATIONS

Museum bulletins 1887-date. O. *To advance subscribers, \$2 a year or 50c a year for those of any one division: (1) geology, economic geology, mineralogy, (2) general zoology, archeology and miscellaneous, (3) paleontology, (4) botany, (5) entomology.*

Bulletins are also found with the annual reports of the museum as follows:

<i>Bulletin</i>	<i>Report</i>	<i>Bulletin</i>	<i>Report</i>	<i>Bulletin</i>	<i>Report</i>	<i>Bulletin</i>	<i>Report</i>
G 1	48, v.1	Pa 1	54, v.1	En 7-9	53, v.1	Ar 3	52, v.1
2	51, v.1	2, 3	" v.3	10	54, v.2	4	54, v.1
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4	54, v.4	5, 6	55, v.1	12, 13	" v.4	6	55, v.1
5	56, v.1	7-9	56, v.2	14	55, v.1	7	56, v.4
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7	50, v.1	4	54, v.1	Bo 3	52, v.1		
8	53, v.1	5-7	" v.3	4	53, v.1	Memoir	
9	54, v.2	8	55, v.1	5	55, v.1	2	49, v.3
10	" v.3	9	56, v.3	6	56, v.4	3, 4	53, v.2
11	56, v.1	En 3	48, v.1	Ar 1	50, v.1		
M 2	" v.1	4-6	52, v.1	2	51, v.1		

The figures in parenthesis indicate the bulletin's number as a New York State Museum bulletin.

Geology. G1 (14) Kemp, J. F. Geology of Moriah and Westport Townships, Essex Co. N. Y., with notes on the iron mines. 38p. 7pl. 2 maps. Sep. 1895. 10c.

G2 (19) Merrill, F: J. H. Guide to the Study of the Geological Collections of the New York State Museum. 162p. 119pl. map. Nov. 1898. [50c]

G3 (21) Kemp, J. F. Geology of the Lake Placid Region. 24p. 1pl. map. Sep. 1898. 5c.

G4 (48) Woodworth, J. B. Pleistocene Geology of Nassau County and Borough of Queens. 58p. il. 9pl. map. Dec. 1901. 25c.

G5 (56) Merrill, F: J. H. Description of the State Geologic Map of 1901. 42p. 2 maps, tab. Oct. 1902. 10c.

G6 (77) Cushing, H. P. Geology of the Vicinity of Little Falls, Herkimer Co. 98p. il. 15pl. 2 maps. Jan. 1905. 30c.

Woodworth, J. B. Pleistocene Geology of the Mooers Quadrangle. *In press.*
 ——— Ancient Water Levels of the Champlain and Hudson Valleys. *In press.*

Cushing, H. P. Geology of the Northeast Adirondack Region. *In press.*

Ogilvie, I. H. Geology of the Paradox Lake Quadrangle. *In press.*

Economic geology. Eg1 (3) Smock, J: C. Building Stone in the State of New York. 152p. Mar. 1888. *Out of print.*

Eg2 (7) ——— First Report on the Iron Mines and Iron Ore Districts in the State of New York. 6+70p. map. June 1889. *Out of print.*

Eg3 (10) ——— Building Stone in New York. 210p. map, tab. Sep. 1890. 40c.

Eg4 (11) Merrill, F: J. H. Salt and Gypsum Industries of New York. 92p. 12pl. 2 maps, 11 tab. Ap. 1893. [50c]

Eg5 (12) Ries, Heinrich. Clay Industries of New York. 174p. 2pl. map. Mar. 1895. 30c.

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